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Permanent Facility				
1	CHEMICAL- CORROSION TESTS	2XXX & 7XXX Series Aluminum Alloy Products	Determining the Susceptibility to Stress-Corrosion Cracking	ASTM G47 (RA2019)
2	CHEMICAL- CORROSION TESTS	5XXX Series Aluminum Alloy Products	Determining the Susceptibility to Intergranular Corrosion	By Mass Loss After Exposure to Nitric Acid-ASTM G67
3	CHEMICAL- CORROSION TESTS	Austenitic and Ferritic-Austenitic (duplex) Stainless Steel	Determining the Susceptibility to Intergranular Corrosion	Test in nitric acid medium by measurement of loss in mass (Huey test) ISO 3651-1
4	CHEMICAL- CORROSION TESTS	Austenitic Stainless Steels	Determining the Susceptibility to Intergranular Corrosion	Copper–Copper Sulfate–Sulfuric Acid Test- IS 10461-2 (RA2016)
5	CHEMICAL- CORROSION TESTS	Austenitic Stainless Steels	Determining the Susceptibility to Intergranular Corrosion	Nitric Acid Test- IS 10461-1(RA2016)
6	CHEMICAL- CORROSION TESTS	Austenitic Stainless Steels	Determining the Susceptibility to Intergranular Corrosion	Practice A - Oxalic Acid Etch Test -ASTM A 262-Practice A
7	CHEMICAL- CORROSION TESTS	Austenitic Stainless Steels	Determining the Susceptibility to Intergranular Corrosion	Practice B - Ferric Sulfate-Sulfuric Acid Test-ASTM A 262 Practice B
8	CHEMICAL- CORROSION TESTS	Austenitic Stainless Steels	Determining the Susceptibility to Intergranular Corrosion	Practice C - Nitric Acid Test - ASTM A 262 Practice C
9	CHEMICAL- CORROSION TESTS	Austenitic Stainless Steels	Determining the Susceptibility to Intergranular Corrosion	Practice E - Copper–Copper Sulfate–Sulfuric Acid Test - ASTM A 262 Practice E
10	CHEMICAL- CORROSION TESTS	Copper alloy with mass fraction of Zinc more than 15%	Dezincification resistance test	ISO 6509-1
11	CHEMICAL- CORROSION TESTS	Copper alloy with mass fraction of Zinc more than 15%	Dezincification resistance test	ISO 6509-2
12	CHEMICAL- CORROSION TESTS	Copper and Copper Alloy Products	Stress Corrosion Cracking in Copper Alloys	Ammonia Vapor Test for -ISO 6957
13	CHEMICAL- CORROSION TESTS	Copper and Copper Alloy Products	Stress Corrosion Cracking in Copper Alloys	Ammonia Vapor Test for -ASTM B858(RA2018)
14	CHEMICAL- CORROSION TESTS	Duplex (Austenitic-Ferritic) Stainless Steel	Detrimental Intermetallic Phase Detection	Method A - Sodium Hydroxide Etch Test -ASTM A1084 Method A,
15	CHEMICAL- CORROSION TESTS	Duplex (Austenitic-Ferritic) Stainless Steel	Detrimental Intermetallic Phase Detection	Method B - Charpy Impact Test -ASTM A1084 Method B,
16	CHEMICAL- CORROSION TESTS	Duplex (Austenitic-Ferritic) Stainless Steel	Detrimental Intermetallic Phase Detection	Method C - Ferric Chloride Corrosion Test-ASTM A1084 Method C

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17	CHEMICAL- CORROSION TESTS	Duplex (Austenitic-Ferritic) Stainless Steel	Detrimental Intermetallic Phase Detection	Method A - Sodium Hydroxide Etch Test-ASTM A923 Method A
18	CHEMICAL- CORROSION TESTS	Duplex (Austenitic-Ferritic) Stainless Steel	Detrimental Intermetallic Phase Detection	Method B - Charpy Impact Test -ASTM A923 Method B
19	CHEMICAL- CORROSION TESTS	Duplex (Austenitic-Ferritic) Stainless Steel	Detrimental Intermetallic Phase Detection	Method C - Ferric Chloride Corrosion Test -ASTM A923 Method C
20	CHEMICAL- CORROSION TESTS	Ferritic stainless steel	Determining the Susceptibility to Intergranular Corrosion	Practice W - Oxalic acid etch test-ASTM A763 Practice W
21	CHEMICAL- CORROSION TESTS	Ferritic Stainless Steels	Determining the Susceptibility to Intergranular Corrosion	Practice X - Ferric sulfate-sulfuric acid test-ASTM A763 Practice X
22	CHEMICAL- CORROSION TESTS	Ferritic Stainless Steels	Determining the Susceptibility to Intergranular Corrosion	Practice Y - Copper-copper sulfate-50 % sulfuric acid test-ASTM A763 Practice Y
23	CHEMICAL- CORROSION TESTS	Ferritic Stainless Steels	Determining the Susceptibility to Intergranular Corrosion	Practice Z - Copper-copper sulfate-16 % sulfuric acid testASTM A763 Practice Z
24	CHEMICAL- CORROSION TESTS	Ferritic, Austenitic and Ferritic-Austenitic (Duplex) Stainless Steels	Determining the Susceptibility to Intergranular Corrosion	Part2 - Corrosion test in media containing sulfuric acid-ISO 3651-2
25	CHEMICAL- CORROSION TESTS	Heavily Cold Worked Welded Austenitic Steel Boiler, Superheater, Heat Exchanger and Condenser Tubes	Weld Decay Test	ASTM A249
26	CHEMICAL- CORROSION TESTS	Low-Cr Ferritic Stainless Steels	Determining the Susceptibility to Intergranular Corrosion	ISO 3651-3
27	CHEMICAL- CORROSION TESTS	Metals and alloys required for used in oil and gas service exposed to sour gas	Sulfide Stress Cracking and Stress Corrosion Cracking in H2S Environments	ANSI NACE TM0177
28	CHEMICAL- CORROSION TESTS	Metals and Alloys With and Without Coatings (Metallic and Non-Metallic Coatigns)	Salt Spray Test	ASTM B117
29	CHEMICAL- CORROSION TESTS	Metals and Alloys With and Without Coatings (Metallic and Non-Metallic Coatigns)	Salt Spray Test	ISO 9227
30	CHEMICAL- CORROSION TESTS	Molybdenum - Bearing Austenitic Stainless Steels	Determining the Susceptibility to Intergranular Corrosion	Practice F - Copper–Copper Sulfate–50 % Sulfuric Acid Test -ASTM A 262 Practice F
31	CHEMICAL- CORROSION TESTS	Nickel Based Alloys	Determining the Susceptibility to Intergranular Corrosion	ISO 9400
32	CHEMICAL- CORROSION TESTS	Nickel-Rich, Chromium-Bearing Alloys	Determining the Susceptibility to Intergranular Corrosion	Method A - Ferric Sulfate-Sulfuric Acid Test-ASTM G28 Method A

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33	CHEMICAL- CORROSION TESTS	Pipes and Pressure Vessel Steel Products - Pipes, Plates, Fittings Flanges	Test for Resistance to Hydrogen-Induced Cracking	NACE TM-0284
34	CHEMICAL- CORROSION TESTS	Stainless Alloys with Different Nickel Content	Stress-Corrosion Cracking Test	Boiling Acidified Sodium Chloride Solution method ASTM G123 (RA2015)
35	CHEMICAL- CORROSION TESTS	Stainless Steel and Related Alloys	Pitting and Crevice Corrosion Resistance Test	Method A - Ferric chloride pitting test. Method B - Ferric chloride crevice test. Method C - Critical pitting temperature test for nickel base and chromium-bearing alloys. Method E - Critical pitting temperature test for stainless steels.-ASTM G 48 – 2015, ASTM G46:94 (2018)
36	CHEMICAL- CORROSION TESTS	Wrought Copper and Copper Alloys	Detection of residual stress	Mercury(I) nitrate test-IS 2308 (RA2015)
37	CHEMICAL- CORROSION TESTS	Wrought Copper and Copper Alloys	Detection of residual stress	Mercury(I) nitrate testISO 196
38	CHEMICAL- CORROSION TESTS	Wrought Copper and Copper Alloys	Detection of residual stress	Mercurous nitrate test-ASTM B154
39	CHEMICAL- CORROSION TESTS	Wrought, Cast, and Welded Stainless Steels and Related Alloys	Stress-Corrosion-Cracking Resistance Test	Boiling Magnesium Chloride Solution-ASTM G30 (RA2016): 1997,ASTM G36 (RA2018)
40	CHEMICAL- METALS & ALLOYS	Aluminum & Aluminum Base Alloys	Antimony	By ICP-OES analysis-ASTM E3061
41	CHEMICAL- METALS & ALLOYS	Aluminum & Aluminum Base Alloys	Arsenic	By ICP-OES analysis-ASTM E3061
42	CHEMICAL- METALS & ALLOYS	Aluminum & Aluminum Base Alloys	Beryllium	By ICP-OES analysis-ASTM E3061
43	CHEMICAL- METALS & ALLOYS	Aluminum & Aluminum Base Alloys	Bismuth	By ICP-OES analysis-ASTM E3061
44	CHEMICAL- METALS & ALLOYS	Aluminum & Aluminum Base Alloys	Boron	By ICP-OES analysis-ASTM E3061
45	CHEMICAL- METALS & ALLOYS	Aluminum & Aluminum Base Alloys	Cadmium	By ICP-OES analysis-ASTM E3061
46	CHEMICAL- METALS & ALLOYS	Aluminum & Aluminum Base Alloys	Calcium	By ICP-OES analysis-ASTM E3061
47	CHEMICAL- METALS & ALLOYS	Aluminum & Aluminum Base Alloys	Chromium	By ICP-OES analysis-ASTM E3061

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48	CHEMICAL- METALS & ALLOYS	Aluminum & Aluminum Base Alloys	Chromium	By Persulphate Oxidation (Volumetric) Method-IS 504 Part 8 (RA2019)
49	CHEMICAL- METALS & ALLOYS	Aluminum & Aluminum Base Alloys	Cobalt	By ICP-OES analysis-ASTM E3061
50	CHEMICAL- METALS & ALLOYS	Aluminum & Aluminum Base Alloys	Copper	By Diethyldithiocarbamate (Photometric) Method -IS 504 Part 3 (RA2019)
51	CHEMICAL- METALS & ALLOYS	Aluminum & Aluminum Base Alloys	Copper	By ICP-OES analysis-ASTM E3061
52	CHEMICAL- METALS & ALLOYS	Aluminum & Aluminum Base Alloys	Iron	By ICP-OES analysis-ASTM E3061
53	CHEMICAL- METALS & ALLOYS	Aluminum & Aluminum Base Alloys	Lead	By ICP-OES analysis-ASTM E3061
54	CHEMICAL- METALS & ALLOYS	Aluminum & Aluminum Base Alloys	Lithium	By ICP-OES analysis-ASTM E3061
55	CHEMICAL- METALS & ALLOYS	Aluminum & Aluminum Base Alloys	Magnesium	By ICP-OES analysis-ASTM E3061
56	CHEMICAL- METALS & ALLOYS	Aluminum & Aluminum Base Alloys	Magnesium	by Pyrophosphate (Gravimetric) Method-ASTM E34 11E1
57	CHEMICAL- METALS & ALLOYS	Aluminum & Aluminum Base Alloys	Manganese	By ICP-OES-ASTM E3061
58	CHEMICAL- METALS & ALLOYS	Aluminum & Aluminum Base Alloys	Manganese	By Persulphate Arsenite Method-IS 504 Part 5 (RA2019)
59	CHEMICAL- METALS & ALLOYS	Aluminum & Aluminum Base Alloys	Nickel	By Dimethylglyoxime (Gravimetric) Method-IS 504 Part 7(RA2019)
60	CHEMICAL- METALS & ALLOYS	Aluminum & Aluminum Base Alloys	Nickel	By ICP-OES-ASTM E3061
61	CHEMICAL- METALS & ALLOYS	Aluminum & Aluminum Base Alloys	Phosphorous	By ICP-OES-ASTM E3061
62	CHEMICAL- METALS & ALLOYS	Aluminum & Aluminum Base Alloys	Silicon	By Gravimetric Method-IS 504 Part 1 (RA2019)
63	CHEMICAL- METALS & ALLOYS	Aluminum & Aluminum Base Alloys	Silicon	By ICP-OES-ASTM E3061
64	CHEMICAL- METALS & ALLOYS	Aluminum & Aluminum Base Alloys	Tin	By ICP-OES-ASTM E3061

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65	CHEMICAL- METALS & ALLOYS	Aluminum & Aluminum Base Alloys	Titanium	By ICP-OES-ASTM E3061
66	CHEMICAL- METALS & ALLOYS	Aluminum & Aluminum Base Alloys	Zinc	By ICP-OES-ASTM E3061
67	CHEMICAL- METALS & ALLOYS	Aluminum & Aluminum Base Alloys	Zirconium	By ICP-OES-ASTM E3061
68	CHEMICAL- METALS & ALLOYS	Carbon Steel, Low-Alloy Steel, Silicon Electrical Steel, Ingot Iron, and Wrought Iron	Aluminium	By ICP-OES - BS EN 10351 2011, LDM_01_04
69	CHEMICAL- METALS & ALLOYS	Carbon Steel, Low-Alloy Steel, Silicon Electrical Steel, Ingot Iron, and Wrought Iron	Antimony	By ICP-OES-LDM_01_04
70	CHEMICAL- METALS & ALLOYS	Carbon Steel, Low-Alloy Steel, Silicon Electrical Steel, Ingot Iron, and Wrought Iron	Boron	By ICP-OES-LDM_01_04
71	CHEMICAL- METALS & ALLOYS	Carbon Steel, Low-Alloy Steel, Silicon Electrical Steel, Ingot Iron, and Wrought Iron	Calcium	By ICP-OES-LDM_01_04
72	CHEMICAL- METALS & ALLOYS	Carbon Steel, Low-Alloy Steel, Silicon Electrical Steel, Ingot Iron, and Wrought Iron	Carbon	By Combustion Method-IS 228-1 1987(RA2018), ASTM E350
73	CHEMICAL- METALS & ALLOYS	Carbon Steel, Low-Alloy Steel, Silicon Electrical Steel, Ingot Iron, and Wrought Iron	Chromium	By ICP-OES-BS EN 10351 2011, LDM_01_04
74	CHEMICAL- METALS & ALLOYS	Carbon Steel, Low-Alloy Steel, Silicon Electrical Steel, Ingot Iron, and Wrought Iron	Chromium	By Persulphate Oxidation Method-IS 228-6 1987(RA2018), ASTM E350
75	CHEMICAL- METALS & ALLOYS	Carbon Steel, Low-Alloy Steel, Silicon Electrical Steel, Ingot Iron, and Wrought Iron	Cobalt	By ICP-OES-BS EN 10351
76	CHEMICAL- METALS & ALLOYS	Carbon Steel, Low-Alloy Steel, Silicon Electrical Steel, Ingot Iron, and Wrought Iron	Cobalt	by the Nitroso-R Salt Spectrophotometric Method-ASTM E350
77	CHEMICAL- METALS & ALLOYS	Carbon Steel, Low-Alloy Steel, Silicon Electrical Steel, Ingot Iron, and Wrought Iron	Copper	By ICP-OES-BS EN 10351 2011, BS EN 10355
78	CHEMICAL- METALS & ALLOYS	Carbon Steel, Low-Alloy Steel, Silicon Electrical Steel, Ingot Iron, and Wrought Iron	Copper	By the Neocuproine Spectrophotometric Method-IS 228-21 2003(RA2019), ASTM E350
79	CHEMICAL- METALS & ALLOYS	Carbon Steel, Low-Alloy Steel, Silicon Electrical Steel, Ingot Iron, and Wrought Iron	Copper	By Thiosulphate Iodide Method-IS 228-15 (RA2019)
80	CHEMICAL- METALS & ALLOYS	Carbon Steel, Low-Alloy Steel, Silicon Electrical Steel, Ingot Iron, and Wrought Iron	Lead	By ICP-OES-LDM_01_04
81	CHEMICAL- METALS & ALLOYS	Carbon Steel, Low-Alloy Steel, Silicon Electrical Steel, Ingot Iron, and Wrought Iron	Manganese	By ICP-OES-BS EN 10351 2011, LDM_01_04

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82	CHEMICAL- METALS & ALLOYS	Carbon Steel, Low-Alloy Steel, Silicon Electrical Steel, Ingot Iron, and Wrought Iron	Manganese	By Arsenite Method-IS 228-2 1987(RA2018), ASTM E350
83	CHEMICAL- METALS & ALLOYS	Carbon Steel, Low-Alloy Steel, Silicon Electrical Steel, Ingot Iron, and Wrought Iron	Molybdenum	By ICP-OES-BS EN 10351 2011,LDM_01_04-
84	CHEMICAL- METALS & ALLOYS	Carbon Steel, Low-Alloy Steel, Silicon Electrical Steel, Ingot Iron, and Wrought Iron	Molybdenum	By the Thiocyanate Spectrophotometric Method-IS 228-10 1989(RA2019), ASTM E350
85	CHEMICAL- METALS & ALLOYS	Carbon Steel, Low-Alloy Steel, Silicon Electrical Steel, Ingot Iron, and Wrought Iron	Nickel	By Dimethylglyoxime Spectrophotometric Method-IS 228-5 1987(RA2019), ASTM E350
86	CHEMICAL- METALS & ALLOYS	Carbon Steel, Low-Alloy Steel, Silicon Electrical Steel, Ingot Iron, and Wrought Iron	Nickel	By ICP-OES-BS EN 10351 2011, LDM_01_04
87	CHEMICAL- METALS & ALLOYS	Carbon Steel, Low-Alloy Steel, Silicon Electrical Steel, Ingot Iron, and Wrought Iron	Niobium	By ICP-OES-LDM_01_04
88	CHEMICAL- METALS & ALLOYS	Carbon Steel, Low-Alloy Steel, Silicon Electrical Steel, Ingot Iron, and Wrought Iron	Phosphorous	By ICP-OES-BS EN 10355 2013, LDM_01_04
89	CHEMICAL- METALS & ALLOYS	Carbon Steel, Low-Alloy Steel, Silicon Electrical Steel, Ingot Iron, and Wrought Iron	Phosphorus	By Alkalimetric Method-IS 228-3 1987(RA2018), ASTM E350
90	CHEMICAL- METALS & ALLOYS	Carbon Steel, Low-Alloy Steel, Silicon Electrical Steel, Ingot Iron, and Wrought Iron	Selenium	By ICP-OES-LDM_01_04
91	CHEMICAL- METALS & ALLOYS	Carbon Steel, Low-Alloy Steel, Silicon Electrical Steel, Ingot Iron, and Wrought Iron	Silicon	By Gravimetric Method-IS 228-8 1989(RA2019), ASTM E350
92	CHEMICAL- METALS & ALLOYS	Carbon Steel, Low-Alloy Steel, Silicon Electrical Steel, Ingot Iron, and Wrought Iron	Silicon	By ICP-OES -BS EN 10355
93	CHEMICAL- METALS & ALLOYS	Carbon Steel, Low-Alloy Steel, Silicon Electrical Steel, Ingot Iron, and Wrought Iron	Sulfur	By Evolution Method-IS 228-9 1989(RA2019), ASTM E350
94	CHEMICAL- METALS & ALLOYS	Carbon Steel, Low-Alloy Steel, Silicon Electrical Steel, Ingot Iron, and Wrought Iron	Sulphur	By ICP-OES-LDM_01_04
95	CHEMICAL- METALS & ALLOYS	Carbon Steel, Low-Alloy Steel, Silicon Electrical Steel, Ingot Iron, and Wrought Iron	Titanium	By ICP-OES-LDM_01_04
96	CHEMICAL- METALS & ALLOYS	Carbon Steel, Low-Alloy Steel, Silicon Electrical Steel, Ingot Iron, and Wrought Iron	Tungsten	By Gravimetric Method-LDM_01_N
97	CHEMICAL- METALS & ALLOYS	Carbon Steel, Low-Alloy Steel, Silicon Electrical Steel, Ingot Iron, and Wrought Iron	Tungsten	By ICP-OES-LDM_01_04
98	CHEMICAL- METALS & ALLOYS	Carbon Steel, Low-Alloy Steel, Silicon Electrical Steel, Ingot Iron, and Wrought Iron	Vanadium	By ICP-OES-BS EN 10351-

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99	CHEMICAL- METALS & ALLOYS	Cast Iron - Pig Iron, Gray Cast-Iron, White Cast Iron, Malleable Cast Iron, and Ductile (Nodular) Iron & High Carbon High Chrome Steel	Aluminum	By OES analysis-BS EN 10351
100	CHEMICAL- METALS & ALLOYS	Cast Iron - Pig Iron, Gray Cast-Iron, White Cast Iron, Malleable Cast Iron, and Ductile (Nodular) Iron & High Carbon High Chrome Steel	Antimony	By OES analysis-LDM_01_04
101	CHEMICAL- METALS & ALLOYS	Cast Iron - Pig Iron, Gray Cast-Iron, White Cast Iron, Malleable Cast Iron, and Ductile (Nodular) Iron & High Carbon High Chrome Steel	Carbon	By Direct Combustion Volumetric Method-ASTM E351:2018, IS 12308-11 (RA2018)
102	CHEMICAL- METALS & ALLOYS	Cast Iron - Pig Iron, Gray Cast-Iron, White Cast Iron, Malleable Cast Iron, and Ductile (Nodular) Iron & High Carbon High Chrome Steel	Chromium	By ICP-OES-BS EN 10351 2011, LDM_01_04
103	CHEMICAL- METALS & ALLOYS	Cast Iron - Pig Iron, Gray Cast-Iron, White Cast Iron, Malleable Cast Iron, and Ductile (Nodular) Iron & High Carbon High Chrome Steel	Chromium	By the Peroxydisulfate Oxidation—Titration Method-IS 12308-11:1991(RA2018), ASTM E351
104	CHEMICAL- METALS & ALLOYS	Cast Iron - Pig Iron, Gray Cast-Iron, White Cast Iron, Malleable Cast Iron, and Ductile (Nodular) Iron & High Carbon High Chrome Steel	Cobalt	By ICP-OES-BS EN 10351
105	CHEMICAL- METALS & ALLOYS	Cast Iron - Pig Iron, Gray Cast-Iron, White Cast Iron, Malleable Cast Iron, and Ductile (Nodular) Iron & High Carbon High Chrome Steel	Cobalt	By the Nitroso-R-Salt Spectrophotometric Method-ASTM E351
106	CHEMICAL- METALS & ALLOYS	Cast Iron - Pig Iron, Gray Cast-Iron, White Cast Iron, Malleable Cast Iron, and Ductile (Nodular) Iron & High Carbon High Chrome Steel	Copper	By ICP-OES-BS EN 10351 2011, LDM_01_04
107	CHEMICAL- METALS & ALLOYS	Cast Iron - Pig Iron, Gray Cast-Iron, White Cast Iron, Malleable Cast Iron, and Ductile (Nodular) Iron & High Carbon High Chrome Steel	Copper	By the Neocuproine Spectrophotometric Method-ASTM E351 2018
108	CHEMICAL- METALS & ALLOYS	Cast Iron - Pig Iron, Gray Cast-Iron, White Cast Iron, Malleable Cast Iron, and Ductile (Nodular) Iron & High Carbon High Chrome Steel	Lead	By ICP-OES-LDM_01_04
109	CHEMICAL- METALS & ALLOYS	Cast Iron - Pig Iron, Gray Cast-Iron, White Cast Iron, Malleable Cast Iron, and Ductile (Nodular) Iron & High Carbon High Chrome Steel	Magnesium	By ICP-OES-LDM_01_04
110	CHEMICAL- METALS & ALLOYS	Cast Iron - Pig Iron, Gray Cast-Iron, White Cast Iron, Malleable Cast Iron, and Ductile (Nodular) Iron & High Carbon High Chrome Steel	Manganese	By ICP-OES-BS EN 10351 2011, LDM_01_04
111	CHEMICAL- METALS & ALLOYS	Cast Iron - Pig Iron, Gray Cast-Iron, White Cast Iron, Malleable Cast Iron, and Ductile (Nodular) Iron & High Carbon High Chrome Steel	Manganese	By Peroxydisulfate-Arsenite Titrimetric Method-IS 12308-10:1991 (RA2018), ASTM E351

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112	CHEMICAL- METALS & ALLOYS	Cast Iron - Pig Iron, Gray Cast-Iron, White Cast Iron, Malleable Cast Iron, and Ductile (Nodular) Iron & High Carbon High Chrome Steel	Molybdenum	By ICP-OES-BS EN 10351 2011, LDM_01_04
113	CHEMICAL- METALS & ALLOYS	Cast Iron - Pig Iron, Gray Cast-Iron, White Cast Iron, Malleable Cast Iron, and Ductile (Nodular) Iron & High Carbon High Chrome Steel	Molybdenum	By the Thiocyanate Spectrophotometric Method-IS 12308-9 1993(RA2019), ASTM E351
114	CHEMICAL- METALS & ALLOYS	Cast Iron - Pig Iron, Gray Cast-Iron, White Cast Iron, Malleable Cast Iron, and Ductile (Nodular) Iron & High Carbon High Chrome Steel	Nickel	By ICP-OES-BS EN 10351 2011, LDM_01_04
115	CHEMICAL- METALS & ALLOYS	Cast Iron - Pig Iron, Gray Cast-Iron, White Cast Iron, Malleable Cast Iron, and Ductile (Nodular) Iron & High Carbon High Chrome Steel	Nickel	By the Dimethylglyoxime Gravimetric Method-ASTM E351
116	CHEMICAL- METALS & ALLOYS	Cast Iron - Pig Iron, Gray Cast-Iron, White Cast Iron, Malleable Cast Iron, and Ductile (Nodular) Iron & High Carbon High Chrome Steel	Phosphorus	By Alkalimetric Method-IS 12308-5 1991(RA2018), ASTM E351
117	CHEMICAL- METALS & ALLOYS	Cast Iron - Pig Iron, Gray Cast-Iron, White Cast Iron, Malleable Cast Iron, and Ductile (Nodular) Iron & High Carbon High Chrome Steel	Phosphorus	By ICP-OES-BS EN 10355 2013, LDM_01_04
118	CHEMICAL- METALS & ALLOYS	Cast Iron - Pig Iron, Gray Cast-Iron, White Cast Iron, Malleable Cast Iron, and Ductile (Nodular) Iron & High Carbon High Chrome Steel	Silicon	By Gravimetric Method-IS 12308-6 1991(RA2018), ASTM E351
119	CHEMICAL- METALS & ALLOYS	Cast Iron - Pig Iron, Gray Cast-Iron, White Cast Iron, Malleable Cast Iron, and Ductile (Nodular) Iron & High Carbon High Chrome Steel	Silicon	By ICP-OES-BS EN 10355
120	CHEMICAL- METALS & ALLOYS	Cast Iron - Pig Iron, Gray Cast-Iron, White Cast Iron, Malleable Cast Iron, and Ductile (Nodular) Iron & High Carbon High Chrome Steel	Sulfur	By ICP-OES-LDM_01_04
121	CHEMICAL- METALS & ALLOYS	Cast Iron - Pig Iron, Gray Cast-Iron, White Cast Iron, Malleable Cast Iron, and Ductile (Nodular) Iron & High Carbon High Chrome Steel	Sulfur	By Iodimetric Titration After Combustion ASTM E350:2018, IS 12308-2 (RA2018)
122	CHEMICAL- METALS & ALLOYS	Cast Iron - Pig Iron, Gray Cast-Iron, White Cast Iron, Malleable Cast Iron, and Ductile (Nodular) Iron & High Carbon High Chrome Steel	Tin	By ICP-OES-LDM_01_04
123	CHEMICAL- METALS & ALLOYS	Cast Iron - Pig Iron, Gray Cast-Iron, White Cast Iron, Malleable Cast Iron, and Ductile (Nodular) Iron & High Carbon High Chrome Steel	Titanium	By ICP-OES-LDM_01_04
124	CHEMICAL- METALS & ALLOYS	Cast Iron - Pig Iron, Gray Cast-Iron, White Cast Iron, Malleable Cast Iron, and Ductile (Nodular) Iron & High Carbon High Chrome Steel	Tungsten	By Gravimetric Method-LDM_01_N

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125	CHEMICAL- METALS & ALLOYS	Cast Iron - Pig Iron, Gray Cast-Iron, White Cast Iron, Malleable Cast Iron, and Ductile (Nodular) Iron & High Carbon High Chrome Steel	Tungsten	By ICP-OES-LDM_01_04
126	CHEMICAL- METALS & ALLOYS	Cast Iron - Pig Iron, Gray Cast-Iron, White Cast Iron, Malleable Cast Iron, and Ductile (Nodular) Iron & High Carbon High Chrome Steel	Vanadium	By ICP-OES-BS EN 10351
127	CHEMICAL- METALS & ALLOYS	Cobalt & Its Alloys	Molybdenum	By Spectrophotometric Method-LDM_01_G
128	CHEMICAL- METALS & ALLOYS	Copper & Copper Alloys	Annex B Carbon Film Test	BS EN 1057
129	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Aluminium	By ICP-OES -BS EN 15605
130	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Antimony	By ICP-OES -BS EN 15605
131	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Arsenic	By ICP-OES -BS EN 15605
132	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Beryllium	By ICP-OES -BS EN 15605
133	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Cadmium	By ICP-OES -BS EN 15605
134	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Carbon	By Combustion Method-LDM_01_B
135	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Cobalt	By ICP-OES -BS EN 15605
136	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Copper	By Titrimetric method-LDM_01_C
137	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Iron	By ICP-OES -BS EN 15605
138	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Lead	By Gravimetric Method-LDM_01_L 2020-
139	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Lead	By ICP-OES-BS EN 15605
140	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Manganese	By ICP-OES-BS EN 15605
141	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Manganese	By Titrimetric Method-LDM_01_F
142	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Nickel	By ICP-OES -BS EN 15605-

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143	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Nickel	IS 440
144	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Phosphorous	By ICP-OES BS EN 15605-
145	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Phosphorous	By Titrimetric Method - LDM_01_K
146	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Silicon	By ICP-OES-LDM_01_04
147	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Silver	By ICP-OES -LDM_01_04
148	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Sulfur	By ICP-OES-LDM_01_04
149	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Tin	By Gravimetric Method-LDM_01_L
150	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Tin	By ICP-OES-BS EN 15605
151	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Zinc	By Gravimetric Method-LDM_01_P
152	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Zinc	By ICP-OES-BS EN 15605
153	CHEMICAL- METALS & ALLOYS	Ferro-Chrome (Low and High Carbon)	Chromium	By WDXRF-ASTM E1621
154	CHEMICAL- METALS & ALLOYS	Ferro-Chrome (Low and High Carbon)	Manganese	By WDXRF-ASTM E1621
155	CHEMICAL- METALS & ALLOYS	Ferro-Chrome (Low and High Carbon)	Phosphorous	By WDXRF-ASTM E1621
156	CHEMICAL- METALS & ALLOYS	Ferro-Chrome (Low and High Carbon)	Silicon	By WDXRF-ASTM E1621
157	CHEMICAL- METALS & ALLOYS	Ferro-Chrome (Low and High Carbon)	Sulphur	By WDXRF-ASTM E1621
158	CHEMICAL- METALS & ALLOYS	Ferro-Manganese, Ferro-Molybdenum, Ferro-Silicon, Ferro-Chrome, Ferro-Niobium, Ferro-Tungsten, Ferro-Titanium, Ferro-Vanadium	Carbon	By Volumetric Method-IS 228-1 1987(RA2018)
159	CHEMICAL- METALS & ALLOYS	Ferro-Molybdenum	Molybdenum	By WDXRF-ASTM E1621
160	CHEMICAL- METALS & ALLOYS	Ferro-Molybdenum	Silicon	By WDXRF-ASTM E1621

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161	CHEMICAL- METALS & ALLOYS	Ferro-Niobium	Aluminum	By WDXRF-ASTM E1621
162	CHEMICAL- METALS & ALLOYS	Ferro-Niobium	Niobium	By WDXRF-ASTM E1621
163	CHEMICAL- METALS & ALLOYS	Ferro-Niobium	Silicon	By WDXRF-ASTM E1621
164	CHEMICAL- METALS & ALLOYS	Ferro-Niobium	Titanium	By WDXRF-ASTM E1621
165	CHEMICAL- METALS & ALLOYS	Ferro-Silico-Manganese (Low, Medium and High Carbon)	Manganese	By WDXRF-ASTM E1621
166	CHEMICAL- METALS & ALLOYS	Ferro-Silico-Manganese (Low, Medium and High Carbon)	Phosphorous	By WDXRF-ASTM E1621
167	CHEMICAL- METALS & ALLOYS	Ferro-Silico-Manganese (Low, Medium and High Carbon)	Silicon	By WDXRF-ASTM E1621
168	CHEMICAL- METALS & ALLOYS	Ferro-Silico-Manganese (Low, Medium and High Carbon)	Sulphur	By WDXRF-ASTM E1621
169	CHEMICAL- METALS & ALLOYS	Ferro-Silicon	Aluminum	By WDXRF-ASTM E1621
170	CHEMICAL- METALS & ALLOYS	Ferro-Silicon	Calcium	By WDXRF-ASTM E1621
171	CHEMICAL- METALS & ALLOYS	Ferro-Silicon	Phosphorous	By WDXRF-ASTM E1621
172	CHEMICAL- METALS & ALLOYS	Ferro-Silicon	Silicon	By WDXRF-ASTM E1621
173	CHEMICAL- METALS & ALLOYS	Ferro-Titanium	Aluminum	By WDXRF-ASTM E1621
174	CHEMICAL- METALS & ALLOYS	Ferro-Titanium	Calcium	By WDXRF-ASTM E1621
175	CHEMICAL- METALS & ALLOYS	Ferro-Titanium	Chromium	By WDXRF-ASTM E1621
176	CHEMICAL- METALS & ALLOYS	Ferro-Titanium	Copper	By WDXRF-ASTM E1621
177	CHEMICAL- METALS & ALLOYS	Ferro-Titanium	Manganese	By WDXRF-ASTM E1621
178	CHEMICAL- METALS & ALLOYS	Ferro-Titanium	Molybdenum	By WDXRF-ASTM E1621
179	CHEMICAL- METALS & ALLOYS	Ferro-Titanium	Nickel	By WDXRF-ASTM E1621

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180	CHEMICAL- METALS & ALLOYS	Ferro-Titanium	Niobium	By WDXRF-ASTM E1621
181	CHEMICAL- METALS & ALLOYS	Ferro-Titanium	Phosphorous	By WDXRF-ASTM E1621
182	CHEMICAL- METALS & ALLOYS	Ferro-Titanium	Silicon	By WDXRF-ASTM E1621
183	CHEMICAL- METALS & ALLOYS	Ferro-Titanium	Sulphur	By WDXRF-ASTM E1621
184	CHEMICAL- METALS & ALLOYS	Ferro-Titanium	Titanium	By WDXRF-ASTM E1621 2013, IS 13840-6 (RA2019)
185	CHEMICAL- METALS & ALLOYS	Ferro-Tungsten	Copper	By WDXRF-ASTM E1621
186	CHEMICAL- METALS & ALLOYS	Ferro-Tungsten	Manganese	By WDXRF-ASTM E1621
187	CHEMICAL- METALS & ALLOYS	Ferro-Tungsten	Molybdenum	By WDXRF-ASTM E1621
188	CHEMICAL- METALS & ALLOYS	Ferro-Tungsten	Silicon	By WDXRF-ASTM E1621
189	CHEMICAL- METALS & ALLOYS	Ferro-Tungsten	Tungsten	By WDXRF-ASTM E1621
190	CHEMICAL- METALS & ALLOYS	Ferro-Vanadium	Chromium	By WDXRF-ASTM E1621
191	CHEMICAL- METALS & ALLOYS	Ferro-Vanadium	Copper	By WDXRF-ASTM E1621
192	CHEMICAL- METALS & ALLOYS	Ferro-Vanadium	Manganese	By WDXRF-ASTM E1621
193	CHEMICAL- METALS & ALLOYS	Ferro-Vanadium	Molybdenum	By WDXRF-ASTM E1621
194	CHEMICAL- METALS & ALLOYS	Ferro-Vanadium	Nickel	By WDXRF-ASTM E1621
195	CHEMICAL- METALS & ALLOYS	Ferro-Vanadium	Phosphorous	By WDXRF-ASTM E1621
196	CHEMICAL- METALS & ALLOYS	Ferro-Vanadium	Silicon	By WDXRF-ASTM E1621
197	CHEMICAL- METALS & ALLOYS	Ferro-Vanadium	Sulphur	By WDXRF-ASTM E1621
198	CHEMICAL- METALS & ALLOYS	Ferro-Vanadium	Titanium	BASTM E1621

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199	CHEMICAL- METALS & ALLOYS	Ferro-Vanadium	Vanadium	By WDXRF-ASTM E1621
200	CHEMICAL- METALS & ALLOYS	Lead & Tin Alloys	Antimony	By ICP-OES-LDM_01_04
201	CHEMICAL- METALS & ALLOYS	Lead & Tin Alloys	Arsenic	By ICP-OES-LDM_01_04
202	CHEMICAL- METALS & ALLOYS	Lead & Tin Alloys	Cadmium	By ICP-OES-LDM_01_04
203	CHEMICAL- METALS & ALLOYS	Lead & Tin Alloys	Copper	By ICP-OES-LDM_01_04
204	CHEMICAL- METALS & ALLOYS	Lead & Tin Alloys	Lead	By Hydrobromic Acid Separation Method-IS 1409 (RA2016) + LDM
205	CHEMICAL- METALS & ALLOYS	Lead & Tin Alloys	Tin	By Iodimetric Method-IS 1409 (RA2016) + LDM
206	CHEMICAL- METALS & ALLOYS	Nickel & Its Alloys	Aluminum	By ICP-OES-ASTM E2594
207	CHEMICAL- METALS & ALLOYS	Nickel & Its Alloys	Boron	By ICP-OES-ASTM E2594 2020
208	CHEMICAL- METALS & ALLOYS	Nickel & Its Alloys	Carbon	By Combustion Method-LDM_01_B
209	CHEMICAL- METALS & ALLOYS	Nickel & Its Alloys	Chromium	By ICP-OES-ASTM E2594
210	CHEMICAL- METALS & ALLOYS	Nickel & Its Alloys	Chromium	By the Peroxydisulfate Oxidation—Titration Method-ASTM E1473
211	CHEMICAL- METALS & ALLOYS	Nickel & Its Alloys	Cobalt	By ICP-OES-ASTM E2594
212	CHEMICAL- METALS & ALLOYS	Nickel & Its Alloys	Cobalt	By the Nitroso-R-Salt Spectrophotometric Method-ASTM E1473
213	CHEMICAL- METALS & ALLOYS	Nickel & Its Alloys	Copper	By ICP-OES-ASTM E2594
214	CHEMICAL- METALS & ALLOYS	Nickel & Its Alloys	Copper	By Iodometric Titration-LDM_01_D
215	CHEMICAL- METALS & ALLOYS	Nickel & Its Alloys	Copper	By Neocuproine Spectrophotometric Method-ASTM E1473

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216	CHEMICAL- METALS & ALLOYS	Nickel & Its Alloys	Iron	By ICP-OES-ASTM E2594
217	CHEMICAL- METALS & ALLOYS	Nickel & Its Alloys	Magnesium	By ICP-OES-ASTM E2594
218	CHEMICAL- METALS & ALLOYS	Nickel & Its Alloys	Manganese	By ICP-OES-ASTM E2594
219	CHEMICAL- METALS & ALLOYS	Nickel & Its Alloys	Molybdenum	By the Spectrophotometric Method-ASTM E1473
220	CHEMICAL- METALS & ALLOYS	Nickel & Its Alloys	Molydenum	By ICP-OES-ASTM E2594
221	CHEMICAL- METALS & ALLOYS	Nickel & Its Alloys	Niobium	By ICP-OES-ASTM E2594
222	CHEMICAL- METALS & ALLOYS	Nickel & Its Alloys	Phosphorous	By ICP-OES-ASTM E2594
223	CHEMICAL- METALS & ALLOYS	Nickel & Its Alloys	Silicon	By ICP-OES-ASTM E2594
224	CHEMICAL- METALS & ALLOYS	Nickel & Its Alloys	Sulfur	By ICP-OES-ASTM E2594
225	CHEMICAL- METALS & ALLOYS	Nickel & Its Alloys	Tantalum	By ICP-OES-ASTM E2594
226	CHEMICAL- METALS & ALLOYS	Nickel & Its Alloys	Titanium	By ICP-OES-ASTM E2594
227	CHEMICAL- METALS & ALLOYS	Nickel & Its Alloys	Tungsten	By Gravimetric-LDM_01_N
228	CHEMICAL- METALS & ALLOYS	Nickel & Its Alloys	Vanadium	By ICP-OES-ASTM E2594
229	CHEMICAL- METALS & ALLOYS	Nickel & Its Alloys	Vanadium	By Titrimetric-LDM_01_O
230	CHEMICAL- METALS & ALLOYS	Nickel & Its Alloys	Zirconium	By ICP-OES-ASTM E2594
231	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Aluminum & Aluminum Alloys	Aluminium	By OES analysis-LDM_01_02
232	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Aluminum & Aluminum Alloys	Antimony	By OES analysis-ASTM E1251 17a, LDM_01_02
233	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Aluminum & Aluminum Alloys	Bistmuth	By OES analysis-ASTM E1251 17a, LDM_01_02
234	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Aluminum & Aluminum Alloys	Cadmium	By OES analysis-LDM_01_02 -

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235	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Aluminum & Aluminum Alloys	Chromium	By OES analysis-ASTM E1251 17a, LDM_01_02
236	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Aluminum & Aluminum Alloys	Copper	By OES analysis-ASTM E1251 17a, LDM_01_02
237	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Aluminum & Aluminum Alloys	Iron	By OES analysis-ASTM E1251 17a, LDM_01_02
238	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Aluminum & Aluminum Alloys	Lead	By OES analysis-ASTM E1251 17a, LDM_01_02
239	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Aluminum & Aluminum Alloys	Magnesium	By OES analysis-ASTM E1251 17a, LDM_01_02
240	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Aluminum & Aluminum Alloys	Manganese	By OES analysis-ASTM E1251 17a, LDM_01_02
241	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Aluminum & Aluminum Alloys	Nickel	By OES analysis-ASTM E1251 17a, LDM_01_02
242	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Aluminum & Aluminum Alloys	Phosphorous	By OES analysis-ASTM E1251 17a, LDM_01_02
243	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Aluminum & Aluminum Alloys	Silicon	By OES analysis-ASTM E1251 17a, LDM_01_02
244	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Aluminum & Aluminum Alloys	Tin	By OES analysis-ASTM E1251 17a, LDM_01_02
245	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Aluminum & Aluminum Alloys	Titanium	By OES analysis-ASTM E1251 17a, LDM_01_02
246	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Aluminum & Aluminum Alloys	Vanadium	By OES analysis-ASTM E1251 17a, LDM_01_02
247	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Aluminum & Aluminum Alloys	Zinc	By OES analysis-ASTM E1251 17a, LDM_01_02
248	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Carbon Steel, Low-Alloy Steel, Silicon Electrical Steel, Ingot Iron, Wrought Iron, Cast Iron, White Cast Iron, Malleable Cast Iron, and Ductile (Nodular) Iron & Alloyed Cast Iron	Aluminium	By OES analysis-ASTM E415 - 17 IS 8811 1998(RA2018) JIS G 1253 (RA2013)
249	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Carbon Steel, Low-Alloy Steel, Silicon Electrical Steel, Ingot Iron, Wrought Iron, Cast Iron, White Cast Iron, Malleable Cast Iron, and Ductile (Nodular) Iron & Alloyed Cast Iron	Antimony	By OES analysis-ASTM E415 - 17, JIS G 1253 2002(RA2013), LDM_01_03
250	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Carbon Steel, Low-Alloy Steel, Silicon Electrical Steel, Ingot Iron, Wrought Iron, Cast Iron, White Cast Iron, Malleable Cast Iron, and Ductile (Nodular) Iron & Alloyed Cast Iron	Arsenic	By OES analysis-ASTM E415 - 17 IS 8811 1998(RA2018) JIS G 1253 - (RA2013)

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251	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Carbon Steel, Low-Alloy Steel, Silicon Electrical Steel, Ingot Iron, Wrought Iron, Cast Iron, White Cast Iron, Malleable Cast Iron, and Ductile (Nodular) Iron & Alloyed Cast Iron	Boron	By OES analysis-ASTM E415 - 17 IS 8811 1998(RA2018) JIS G 1253 (RA2013)
252	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Carbon Steel, Low-Alloy Steel, Silicon Electrical Steel, Ingot Iron, Wrought Iron, Cast Iron, White Cast Iron, Malleable Cast Iron, and Ductile (Nodular) Iron & Alloyed Cast Iron	Calcium	By OES analysis-ASTM E415 - 17, JIS G 1253 2002(RA2013), LDM_01_03
253	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Carbon Steel, Low-Alloy Steel, Silicon Electrical Steel, Ingot Iron, Wrought Iron, Cast Iron, White Cast Iron, Malleable Cast Iron, and Ductile (Nodular) Iron & Alloyed Cast Iron	Carbon	By OES analysis--ASTM E415 - 17, IS 8811 1998(RA2018), JIS G 1253 (RA2013)
254	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Carbon Steel, Low-Alloy Steel, Silicon Electrical Steel, Ingot Iron, Wrought Iron, Cast Iron, White Cast Iron, Malleable Cast Iron, and Ductile (Nodular) Iron & Alloyed Cast Iron	Chromium	By OES analysis-ASTM E415 - 17, IS 8811 1998(RA2018), JIS G 1253 (RA2013)
255	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Carbon Steel, Low-Alloy Steel, Silicon Electrical Steel, Ingot Iron, Wrought Iron, Cast Iron, White Cast Iron, Malleable Cast Iron, and Ductile (Nodular) Iron & Alloyed Cast Iron	Cobalt	By OES analysis-ASTM E415 - 17, IS 8811 1998(RA2018), JIS G 1253 (RA2013)
256	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Carbon Steel, Low-Alloy Steel, Silicon Electrical Steel, Ingot Iron, Wrought Iron, Cast Iron, White Cast Iron, Malleable Cast Iron, and Ductile (Nodular) Iron & Alloyed Cast Iron	Copper	By OES analysis-ASTM E415 - 17, IS 8811 1998(RA2018), JIS G 1253 (RA2013)-
257	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Carbon Steel, Low-Alloy Steel, Silicon Electrical Steel, Ingot Iron, Wrought Iron, Cast Iron, White Cast Iron, Malleable Cast Iron, and Ductile (Nodular) Iron & Alloyed Cast Iron	Lead	By OES analysis-JIS G 1253 (RA2013)
258	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Carbon Steel, Low-Alloy Steel, Silicon Electrical Steel, Ingot Iron, Wrought Iron, Cast Iron, White Cast Iron, Malleable Cast Iron, and Ductile (Nodular) Iron & Alloyed Cast Iron	Magnesium	By OES analysis-JIS G 1253 2002(RA2013), LDM_01_03
259	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Carbon Steel, Low-Alloy Steel, Silicon Electrical Steel, Ingot Iron, Wrought Iron, Cast Iron, White Cast Iron, Malleable Cast Iron, and Ductile (Nodular) Iron & Alloyed Cast Iron	Manganese	By OES analysis-ASTM E415 - 17, IS 8811 1998(RA2018), JIS G 1253 (RA2013)
260	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Carbon Steel, Low-Alloy Steel, Silicon Electrical Steel, Ingot Iron, Wrought Iron, Cast Iron, White Cast Iron, Malleable Cast Iron, and Ductile (Nodular) Iron & Alloyed Cast Iron	Molybdenum	By OES analysis-ASTM E415 - 17, IS 8811 1998(RA2018), JIS G 1253 (RA2013)
261	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Carbon Steel, Low-Alloy Steel, Silicon Electrical Steel, Ingot Iron, Wrought Iron, Cast Iron, White Cast Iron, Malleable Cast Iron, and Ductile (Nodular) Iron & Alloyed Cast Iron	Nickel	By OES analysis-ASTM E415 - 17, IS 8811 1998(RA2018), JIS G 1253 (RA2013)

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262	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Carbon Steel, Low-Alloy Steel, Silicon Electrical Steel, Ingot Iron, Wrought Iron, Cast Iron, White Cast Iron, Malleable Cast Iron, and Ductile (Nodular) Iron & Alloyed Cast Iron	Niobium	By OES analysis-ASTM E415 - 17, IS 8811 1998(RA2018), JIS G 1253 2002(RA2013), LDM_01_03
263	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Carbon Steel, Low-Alloy Steel, Silicon Electrical Steel, Ingot Iron, Wrought Iron, Cast Iron, White Cast Iron, Malleable Cast Iron, and Ductile (Nodular) Iron & Alloyed Cast Iron	Nitrogen	By OES analysis-IS 228-23 2003, ASTM E415 - 17, JIS G 1253 (RA2013)
264	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Carbon Steel, Low-Alloy Steel, Silicon Electrical Steel, Ingot Iron, Wrought Iron, Cast Iron, White Cast Iron, Malleable Cast Iron, and Ductile (Nodular) Iron & Alloyed Cast Iron	Phosphorous	By OES analysis-ASTM E415 - 17, IS 8811 1998(RA2018), JIS G 1253 2002(RA2013), LDM_01_03
265	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Carbon Steel, Low-Alloy Steel, Silicon Electrical Steel, Ingot Iron, Wrought Iron, Cast Iron, White Cast Iron, Malleable Cast Iron, and Ductile (Nodular) Iron & Alloyed Cast Iron	Selenium	By OES analysis-JIS G 1253 2002(RA2013), LDM_01_03
266	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Carbon Steel, Low-Alloy Steel, Silicon Electrical Steel, Ingot Iron, Wrought Iron, Cast Iron, White Cast Iron, Malleable Cast Iron, and Ductile (Nodular) Iron & Alloyed Cast Iron	Silicon	By OES analysis-ASTM E415 - 17, IS 8811 1998(RA2018), JIS G 1253 (RA2013)
267	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Carbon Steel, Low-Alloy Steel, Silicon Electrical Steel, Ingot Iron, Wrought Iron, Cast Iron, White Cast Iron, Malleable Cast Iron, and Ductile (Nodular) Iron & Alloyed Cast Iron	Sulfur	By OES analysis-ASTM E415 - 17, IS 8811 1998(RA2018), JIS G 1253 (RA2013)
268	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Carbon Steel, Low-Alloy Steel, Silicon Electrical Steel, Ingot Iron, Wrought Iron, Cast Iron, White Cast Iron, Malleable Cast Iron, and Ductile (Nodular) Iron & Alloyed Cast Iron	Tantalum	By OES analysis-JIS G 1253 2002(RA2013), LDM_01_03
269	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Carbon Steel, Low-Alloy Steel, Silicon Electrical Steel, Ingot Iron, Wrought Iron, Cast Iron, White Cast Iron, Malleable Cast Iron, and Ductile (Nodular) Iron & Alloyed Cast Iron	Tin	By OES analysis-ASTM E415 - 17, IS 8811 1998(RA2018), JIS G 1253 2002(RA2013), LDM_01_03
270	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Carbon Steel, Low-Alloy Steel, Silicon Electrical Steel, Ingot Iron, Wrought Iron, Cast Iron, White Cast Iron, Malleable Cast Iron, and Ductile (Nodular) Iron & Alloyed Cast Iron	Titanium	By OES analysis-IS 8811 1998(RA2018), JIS G 1253 (RA2013)
271	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Carbon Steel, Low-Alloy Steel, Silicon Electrical Steel, Ingot Iron, Wrought Iron, Cast Iron, White Cast Iron, Malleable Cast Iron, and Ductile (Nodular) Iron & Alloyed Cast Iron	Tungsten	By OES analysis-JIS G 1253 2002(RA2013), LDM_01_03
272	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Carbon Steel, Low-Alloy Steel, Silicon Electrical Steel, Ingot Iron, Wrought Iron, Cast Iron, White Cast Iron, Malleable Cast Iron, and Ductile (Nodular) Iron & Alloyed Cast Iron	Vanadium	By OES analysis-ASTM E415 - 17, IS 8811 1998(RA2018), JIS G 1253 (RA2013)

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273	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Carbon Steel, Low-Alloy Steel, Silicon Electrical Steel, Ingot Iron, Wrought Iron, Cast Iron, White Cast Iron, Malleable Cast Iron, and Ductile (Nodular) Iron & Alloyed Cast Iron	Zinc	By OES analysis-LDM_01_03
274	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Carbon Steel, Low-Alloy Steel, Silicon Electrical Steel, Ingot Iron, Wrought Iron, Cast Iron, White Cast Iron, Malleable Cast Iron, and Ductile (Nodular) Iron & Alloyed Cast Iron	Zirconium	By OES analysis-ASTM E415 - 17, IS 8811 1998(RA2018), JIS G 1253 (RA2013)
275	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Cobalt & Cobalt Alloys	Aluminium	By OES analysis-LDM_01_03
276	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Cobalt & Cobalt Alloys	Chromium	By OES analysis-LDM_01_03
277	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Cobalt & Cobalt Alloys	Copper	By OES analysis-LDM_01_03
278	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Cobalt & Cobalt Alloys	Iron	By OES analysis-LDM_01_03
279	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Cobalt & Cobalt Alloys	Lead	By OES analysis-LDM_01_03
280	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Cobalt & Cobalt Alloys	Manganese	By OES analysis-LDM_01_03
281	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Cobalt & Cobalt Alloys	Molybdenum	By OES analysis-LDM_01_03
282	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Cobalt & Cobalt Alloys	Nickel	By OES analysis-LDM_01_03
283	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Cobalt & Cobalt Alloys	Niobium	By OES analysis-LDM_01_03
284	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Cobalt & Cobalt Alloys	Phosphorous	By OES analysis-LDM_01_03
285	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Cobalt & Cobalt Alloys	Silicon	By OES analysis-LDM_01_03
286	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Cobalt & Cobalt Alloys	Sulphur	By OES analysis-LDM_01_03
287	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Cobalt & Cobalt Alloys	Tantalum	By OES analysis-LDM_01_03
288	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Cobalt & Cobalt Alloys	Tin	By OES analysis-LDM_01_03
289	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Cobalt & Cobalt Alloys	Titanium	By OES analysis-LDM_01_03

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290	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Cobalt & Cobalt Alloys	Tungusten	By OES analysis-LDM_01_03
291	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Cobalt & Cobalt Alloys	Vanadium	By OES analysis-LDM_01_03
292	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Copper & Copper Alloys	Aluminium	By OES analysis-BS EN 15079 2015, LDM_01_03
293	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Copper & Copper Alloys	Antimony	By OES analysis-BS EN 15079 2015, LDM_01_03
294	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Copper & Copper Alloys	Arsenic	By OES analysis-BS EN 15079
295	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Copper & Copper Alloys	Beryllium	By OES analysis-BS EN 15079 2015, LDM_01_03
296	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Copper & Copper Alloys	Bismuth	By OES analysis-BS EN 15079
297	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Copper & Copper Alloys	Cadmium	By OES analysis-BS EN 15079
298	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Copper & Copper Alloys	Carbon	By OES analysis-BS EN 15079 2015, LDM_01_03
299	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Copper & Copper Alloys	Chromium	By OES analysis-BS EN 15079
300	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Copper & Copper Alloys	Cobalt	By OES analysis-BS EN 15079 2015, LDM_01_03
301	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Copper & Copper Alloys	Iron	By OES analysis-BS EN 15079
302	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Copper & Copper Alloys	Lead	By OES analysis-BS EN 15079
303	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Copper & Copper Alloys	Magnesium	By OES analysis-BS EN 15079
304	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Copper & Copper Alloys	Manganese	By OES analysis-BS EN 15079 2015, LDM_01_03
305	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Copper & Copper Alloys	Nickel	By OES analysis-BS EN 15079 2015, LDM_01_03
306	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Copper & Copper Alloys	Phosphorous	By OES analysis-BS EN 15079
307	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Copper & Copper Alloys	Selenium	By OES analysis -BS EN 15079 2015, LDM_01_03
308	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Copper & Copper Alloys	Silicon	By OES analysis-LDM_01_03

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309	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Copper & Copper Alloys	Silver	By OES analysis-BS EN 15079 2015, LDM_01_03
310	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Copper & Copper Alloys	Sulphur	By OES analysis-BS EN 15079
311	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Copper & Copper Alloys	Telurium	By OES analysis-BS EN 15079
312	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Copper & Copper Alloys	Tin	By OES analysis-BS EN 15079
313	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Copper & Copper Alloys	Zinc	By OES analysis-BS EN 15079 2015, LDM_01_03
314	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Copper & Copper Alloys	Zirconium	By OES analysis-BS EN 15079 2015, LDM_01_03
315	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Medium and High Alloy Steel, Tool Steel, Stainless Steel, Maraging Steel, High Manganese Steel and Duplex Steel	Aluminium	By OES analysis-JIS G 1253 (RA2013)
316	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Medium and High Alloy Steel, Tool Steel, Stainless Steel, Maraging Steel, High Manganese Steel and Duplex Steel	Antimony	By OES analysis-JIS G 1253 (RA2013)
317	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Medium and High Alloy Steel, Tool Steel, Stainless Steel, Maraging Steel, High Manganese Steel and Duplex Steel	Arsenic	By OES analysis-JIS G 1253 (RA2013)
318	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Medium and High Alloy Steel, Tool Steel, Stainless Steel, Maraging Steel, High Manganese Steel and Duplex Steel	Boron	By OES analysis-JIS G 1253 (RA2013)
319	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Medium and High Alloy Steel, Tool Steel, Stainless Steel, Maraging Steel, High Manganese Steel and Duplex Steel	Calcium	By OES analysis-JIS G 1253 2002(RA2013) LDM_01_03
320	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Medium and High Alloy Steel, Tool Steel, Stainless Steel, Maraging Steel, High Manganese Steel and Duplex Steel	Carbon	By OES analysis-ASTM E1086 -14 ASTM E2209 - 13 IS 9879 1988(RA2015) JIS G 1253 (RA2013)
321	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Medium and High Alloy Steel, Tool Steel, Stainless Steel, Maraging Steel, High Manganese Steel and Duplex Steel	Chromium	By OES analysis-ASTM E1086 -14 ASTM E2209 - 13 IS 9879 1988(RA2015) JIS G 1253 (RA2013)
322	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Medium and High Alloy Steel, Tool Steel, Stainless Steel, Maraging Steel, High Manganese Steel and Duplex Steel	Cobalt	By OES analysis-JIS G 1253 (RA2013)

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323	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Medium and High Alloy Steel, Tool Steel, Stainless Steel, Maraging Steel, High Manganese Steel and Duplex Steel	Copper	By OES analysis-ASTM E1086 -14 IS 9879 1988(RA2015) JIS G 1253 2002(RA2013), LDM_01_03
324	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Medium and High Alloy Steel, Tool Steel, Stainless Steel, Maraging Steel, High Manganese Steel and Duplex Steel	Lead	By OES analysis-JIS G 1253 (RA2013)
325	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Medium and High Alloy Steel, Tool Steel, Stainless Steel, Maraging Steel, High Manganese Steel and Duplex Steel	Magnesium	By OES analysis-JIS G 1253 (RA2013)
326	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Medium and High Alloy Steel, Tool Steel, Stainless Steel, Maraging Steel, High Manganese Steel and Duplex Steel	Manganese	By OES analysis-ASTM E1086 -14 ASTM E2209 - 13 IS 9879 1988(RA2015) JIS G 1253 (RA2013)
327	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Medium and High Alloy Steel, Tool Steel, Stainless Steel, Maraging Steel, High Manganese Steel and Duplex Steel	Molybdenum	By OES analysis-ASTM E1086 -14 ASTM E2209 - 13 IS 9879 1988(RA2015) JIS G 1253 2002(RA2013), LDM_01_03
328	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Medium and High Alloy Steel, Tool Steel, Stainless Steel, Maraging Steel, High Manganese Steel and Duplex Steel	Nickel	By OES analysis-ASTM E1086 -14 ASTM E2209 - 13 IS 9879 1988(RA2015) JIS G 1253 (RA2013)
329	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Medium and High Alloy Steel, Tool Steel, Stainless Steel, Maraging Steel, High Manganese Steel and Duplex Steel	Niobinum	By OES analysis-JIS G 1253 2002(RA2013) LDM_01_03
330	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Medium and High Alloy Steel, Tool Steel, Stainless Steel, Maraging Steel, High Manganese Steel and Duplex Steel	Nitrogen	By OES analysis-IS 228-23 2003(RA2019) JIS G 1253 2002(RA2013) LDM_01_03
331	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Medium and High Alloy Steel, Tool Steel, Stainless Steel, Maraging Steel, High Manganese Steel and Duplex Steel	Phosphorous	By OES analysis-ASTM E1086 -14 ASTM E2209 - 13 IS 9879 1988(RA2015) JIS G 1253 (RA2013)
332	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Medium and High Alloy Steel, Tool Steel, Stainless Steel, Maraging Steel, High Manganese Steel and Duplex Steel	Silicon	By OES analysis-ASTM E1086 -14 ASTM E2209 - 13 IS 9879 1988(RA2015) JIS G 1253 2002(RA2013)
333	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Medium and High Alloy Steel, Tool Steel, Stainless Steel, Maraging Steel, High Manganese Steel and Duplex Steel	Sulfur	By OES analysis-JIS G 1253 (RA2013)
334	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Medium and High Alloy Steel, Tool Steel, Stainless Steel, Maraging Steel, High Manganese Steel and Duplex Steel	Tantalum	By OES analysis-JIS G 1253 (RA2013)

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335	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Medium and High Alloy Steel, Tool Steel, Stainless Steel, Maraging Steel, High Manganese Steel and Duplex Steel	Tin	By OES analysis-JIS G 1253 (RA2013)
336	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Medium and High Alloy Steel, Tool Steel, Stainless Steel, Maraging Steel, High Manganese Steel and Duplex Steel	Titanium	By OES analysis-JIS G 1253 (RA2013)
337	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Medium and High Alloy Steel, Tool Steel, Stainless Steel, Maraging Steel, High Manganese Steel and Duplex Steel	Tungsten	By OES analysis-JIS G 1253 (RA2013)
338	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Medium and High Alloy Steel, Tool Steel, Stainless Steel, Maraging Steel, High Manganese Steel and Duplex Steel	Vanadium	By OES analysis-JIS G 1253 (RA2013)
339	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Medium and High Alloy Steel, Tool Steel, Stainless Steel, Maraging Steel, High Manganese Steel and Duplex Steel	Zinc	By OES analysis-LDM_01_03
340	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Medium and High Alloy Steel, Tool Steel, Stainless Steel, Maraging Steel, High Manganese Steel and Duplex Steel	Zirconium	By OES analysis-JIS G 1253 (RA2013)
341	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Nickel & Nickel Alloys	Aluminum	By OES analysis-ASTM E3047
342	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Nickel & Nickel Alloys	Boron	By OES analysis-ASTM E3047 2016, LDM_01_03
343	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Nickel & Nickel Alloys	Carbon	By OES analysis-ASTM E3047 2016, LDM_01_03
344	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Nickel & Nickel Alloys	Chromium	By OES analysis-ASTM E3047 2016, LDM_01_03
345	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Nickel & Nickel Alloys	Cobalt	By OES analysis-ASTM E3047 2016, LDM_01_03
346	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Nickel & Nickel Alloys	Copper	By OES analysis-ASTM E3047 2016, LDM_01_03
347	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Nickel & Nickel Alloys	Iron	By OES analysis-ASTM E3047 2016, LDM_01_03
348	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Nickel & Nickel Alloys	Magnesium	By OES analysis-ASTM E3047 2016, LDM_01_03
349	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Nickel & Nickel Alloys	Manganese	By OES analysis-AST00M E3047 2016, LDM_01_03
350	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Nickel & Nickel Alloys	Molybdenum	By OES analysis-ASTM E3047 2016, LDM_01_03
351	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Nickel & Nickel Alloys	Niobium	By OES analysis-ASTM E3047 2016, LDM_01_03

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352	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Nickel & Nickel Alloys	Nitrogen	By OES analysis-LDM_01_03
353	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Nickel & Nickel Alloys	Phosphorous	By OES analysis-ASTM E3047 2016, LDM_01_03
354	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Nickel & Nickel Alloys	Silicon	By OES analysis-ASTM E3047 2016, LDM_01_03
355	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Nickel & Nickel Alloys	Sulphur	By OES analysis-ASTM E3047 2016, LDM_01_03
356	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Nickel & Nickel Alloys	Tantalum	By OES analysis-ASTM E3047 2016, LDM_01_03
357	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Nickel & Nickel Alloys	Tin	By OES analysis-ASTM E3047 2016, LDM_01_03
358	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Nickel & Nickel Alloys	Titanium	By OES analysis-ASTM E3047
359	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Nickel & Nickel Alloys	Tungsten	By OES analysis-ASTM E3047 2016, LDM_01_03
360	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Nickel & Nickel Alloys	Vanadium	By OES analysis-ASTM E3047 2016, LDM_01_03
361	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Nickel & Nickel Alloys	Zirconium	By OES analysis-ASTM E3047 2016, LDM_01_03
362	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Titanium & Titanium alloys	Aluminium	By OES analysis-ASTM E2994 2016, LDM_01_03
363	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Titanium & Titanium alloys	Carbon	By OES analysis-LDM_01_03
364	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Titanium & Titanium alloys	Chromium	By OES analysis-ASTM E2994 2016, LDM_01_03
365	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Titanium & Titanium alloys	Copper	By OES analysis-ASTM E2994 2016, LDM_01_03
366	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Titanium & Titanium alloys	Iron	By OES analysis-ASTM E2994 2016, LDM_01_03
367	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Titanium & Titanium alloys	Manganese	By OES analysis-ASTM E2994 2016, LDM_01_03
368	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Titanium & Titanium alloys	Molybdenum	By OES analysis-ASTM E2994 2016, LDM_01_03
369	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Titanium & Titanium alloys	Nickel	By OES analysis-ASTM E2994 2016, LDM_01_03
370	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Titanium & Titanium alloys	Niobium	By OES analysis-LDM_01_03

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371	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Titanium & Titanium alloys	Silicon	By OES analysis-ASTM E2994 2016, LDM_01_03
372	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Titanium & Titanium alloys	Tin	By OES analysis-ASTM E2994 2016, LDM_01_03
373	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Titanium & Titanium alloys	Tungstun	By OES analysis-LDM No-14
374	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Titanium & Titanium alloys	Vanadium	By OES analysis-ASTM E2994 2016, LDM_01_03
375	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Titanium & Titanium alloys	Zirconium	By OES analysis-ASTM E2994 2016, LDM_01_03
376	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Zinc & Zinc Alloys	Aluminium	By OES analysis-ISO 3815-1 2005 LDM_01_02
377	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Zinc & Zinc Alloys	Cadmium	By OES analysis-ISO 3815-1 2005 LDM_01_02
378	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Zinc & Zinc Alloys	Copper	By OES analysis-ISO 3815-1 2005 LDM_01_02
379	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Zinc & Zinc Alloys	Iron	By OES analysis-ISO 3815-1 2005 LDM_01_02
380	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Zinc & Zinc Alloys	Lead	By OES analysis-ISO 3815-1 2005 LDM_01_02
381	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Zinc & Zinc Alloys	Magnesium	By OES analysis-ISO 3815-1 2005 LDM_01_02
382	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Zinc & Zinc Alloys	Nickel	By OES analysis-LDM_01_02
383	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Zinc & Zinc Alloys	Tin	By OES analysis-ISO 3815-1 2005 LDM_01_02
384	CHEMICAL- METALS & ALLOYS	Spectro Analysis of Zinc & Zinc Alloys	Zinc	By OES analysis-LDM_01_02
385	CHEMICAL- METALS & ALLOYS	Titanium & Its Alloys	Aluminium	By ICP-OES-ASTM E2371
386	CHEMICAL- METALS & ALLOYS	Titanium & Its Alloys	Boron	By ICP-OES-ASTM E2371
387	CHEMICAL- METALS & ALLOYS	Titanium & Its Alloys	Chromium	By ICP-OES-ASTM E2371
388	CHEMICAL- METALS & ALLOYS	Titanium & Its Alloys	Cobalt	By ICP-OES-ASTM E2371
389	CHEMICAL- METALS & ALLOYS	Titanium & Its Alloys	Copper	By ICP-OES-ASTM E2371

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390	CHEMICAL- METALS & ALLOYS	Titanium & Its Alloys	Iron	By ICP-OES-ASTM E2371
391	CHEMICAL- METALS & ALLOYS	Titanium & Its Alloys	Manganese	By ICP-OES-ASTM E2371
392	CHEMICAL- METALS & ALLOYS	Titanium & Its Alloys	Molydenum	By ICP-OES-ASTM E2371
393	CHEMICAL- METALS & ALLOYS	Titanium & Its Alloys	Nickel	By ICP-OES-ASTM E2371
394	CHEMICAL- METALS & ALLOYS	Titanium & Its Alloys	Niobium	By ICP-OES-ASTM E2371
395	CHEMICAL- METALS & ALLOYS	Titanium & Its Alloys	Palladium	By ICP-OES-ASTM E2371
396	CHEMICAL- METALS & ALLOYS	Titanium & Its Alloys	Ruthenium	By ICP-OES-ASTM E2371
397	CHEMICAL- METALS & ALLOYS	Titanium & Its Alloys	Silicon	By ICP-OES-ASTM E2371
398	CHEMICAL- METALS & ALLOYS	Titanium & Its Alloys	Tantalum	By ICP-OES-ASTM E2371
399	CHEMICAL- METALS & ALLOYS	Titanium & Its Alloys	Tin	By ICP-OES-ASTM E2371
400	CHEMICAL- METALS & ALLOYS	Titanium & Its Alloys	Tungsten	By ICP-OES-ASTM E2371
401	CHEMICAL- METALS & ALLOYS	Titanium & Its Alloys	Vanadium	By ICP-OES-ASTM E2371
402	CHEMICAL- METALS & ALLOYS	Titanium & Its Alloys	Yttrium	By ICP-OES-ASTM E2371
403	CHEMICAL- METALS & ALLOYS	Titanium & Its Alloys	Zirconium	By ICP-OES-ASTM E2371
404	CHEMICAL- METALS & ALLOYS	Tool Steel, Similar Medium & High Alloy Steel, Stainless Steel, Heat-Resisting, Maraging, And Other Similar Chromium-Nickel-Iron Alloys	Aluminium	By ICP-OES analysis-BS EN 10351
405	CHEMICAL- METALS & ALLOYS	Tool Steel, Similar Medium & High Alloy Steel, Stainless Steel, Heat-Resisting, Maraging, And Other Similar Chromium-Nickel-Iron Alloys	Boron	By ICP-OES-LDM_01_04
406	CHEMICAL- METALS & ALLOYS	Tool Steel, Similar Medium & High Alloy Steel, Stainless Steel, Heat-Resisting, Maraging, And Other Similar Chromium-Nickel-Iron Alloys	Carbon	By Combustion Method-ASTM E353:2019, IS 228-1 1987(RA2018), IS 6226-1 (RA2018)

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407	CHEMICAL- METALS & ALLOYS	Tool Steel, Similar Medium & High Alloy Steel, Stainless Steel, Heat-Resisting, Maraging, And Other Similar Chromium-Nickel-Iron Alloys	Chromium	By Persulphate Oxidation Method/Perchloric acid method -ASTM E353:2019, IS 228-6 (RA2018)
408	CHEMICAL- METALS & ALLOYS	Tool Steel, Similar Medium & High Alloy Steel, Stainless Steel, Heat-Resisting, Maraging, And Other Similar Chromium-Nickel-Iron Alloys	Cobalt	By the Nitroso-R-Salt Spectrophotometric Method-ASTM E353
409	CHEMICAL- METALS & ALLOYS	Tool Steel, Similar Medium & High Alloy Steel, Stainless Steel, Heat-Resisting, Maraging, And Other Similar Chromium-Nickel-Iron Alloys	Cobalt	By ICP-OES-BS EN 10351
410	CHEMICAL- METALS & ALLOYS	Tool Steel, Similar Medium & High Alloy Steel, Stainless Steel, Heat-Resisting, Maraging, And Other Similar Chromium-Nickel-Iron Alloys	Copper	By ICP-OES-BS EN 10351 2011, BS EN 10355
411	CHEMICAL- METALS & ALLOYS	Tool Steel, Similar Medium & High Alloy Steel, Stainless Steel, Heat-Resisting, Maraging, And Other Similar Chromium-Nickel-Iron Alloys	Copper	By the Neocuproine Spectrophotometric Method-ASTM E353:2019, IS 228-21 (RA2019)
412	CHEMICAL- METALS & ALLOYS	Tool Steel, Similar Medium & High Alloy Steel, Stainless Steel, Heat-Resisting, Maraging, And Other Similar Chromium-Nickel-Iron Alloys	Copper	By Thiosulphate Iodide Method-IS 228-15 (RA2019)
413	CHEMICAL- METALS & ALLOYS	Tool Steel, Similar Medium & High Alloy Steel, Stainless Steel, Heat-Resisting, Maraging, And Other Similar Chromium-Nickel-Iron Alloys	Manganese	By Arsenite Method-IS 228-2 (RA2018)
414	CHEMICAL- METALS & ALLOYS	Tool Steel, Similar Medium & High Alloy Steel, Stainless Steel, Heat-Resisting, Maraging, And Other Similar Chromium-Nickel-Iron Alloys	Manganese	By ICP-OES-BS EN 10351 2011, BS EN 10355
415	CHEMICAL- METALS & ALLOYS	Tool Steel, Similar Medium & High Alloy Steel, Stainless Steel, Heat-Resisting, Maraging, And Other Similar Chromium-Nickel-Iron Alloys	Molybdenum	By the Thiocyanate Spectrophotometric Method-IS 228-10 1989(RA2019), ASTM E353
416	CHEMICAL- METALS & ALLOYS	Tool Steel, Similar Medium & High Alloy Steel, Stainless Steel, Heat-Resisting, Maraging, And Other Similar Chromium-Nickel-Iron Alloys	Nickel	IS 228-5 1987(RA2019), ASTM E352 2018, ASTM E353
417	CHEMICAL- METALS & ALLOYS	Tool Steel, Similar Medium & High Alloy Steel, Stainless Steel, Heat-Resisting, Maraging, And Other Similar Chromium-Nickel-Iron Alloys	Niobium	By ICP-OES-LDM_01_04
418	CHEMICAL- METALS & ALLOYS	Tool Steel, Similar Medium & High Alloy Steel, Stainless Steel, Heat-Resisting, Maraging, And Other Similar Chromium-Nickel-Iron Alloys	Phosphorus	By ICP-OES-BS EN 10351 2011, BS EN 10355
419	CHEMICAL- METALS & ALLOYS	Tool Steel, Similar Medium & High Alloy Steel, Stainless Steel, Heat-Resisting, Maraging, And Other Similar Chromium-Nickel-Iron Alloys	Phosphorus	By the Alkalimetric Method-IS 228-3 1987(RA2018), ASTM E353

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420	CHEMICAL- METALS & ALLOYS	Tool Steel, Similar Medium & High Alloy Steel, Stainless Steel, Heat-Resisting, Maraging, And Other Similar Chromium-Nickel-Iron Alloys	Silicon	By Gravimetric Method-IS 228-8 1989(RA2019), ASTM E353
421	CHEMICAL- METALS & ALLOYS	Tool Steel, Similar Medium & High Alloy Steel, Stainless Steel, Heat-Resisting, Maraging, And Other Similar Chromium-Nickel-Iron Alloys	Silicon	By ICP-OES-BS EN 10355
422	CHEMICAL- METALS & ALLOYS	Tool Steel, Similar Medium & High Alloy Steel, Stainless Steel, Heat-Resisting, Maraging, And Other Similar Chromium-Nickel-Iron Alloys	Sulfur	By Evolution Method-IS 228-9 (RA2018)
423	CHEMICAL- METALS & ALLOYS	Tool Steel, Similar Medium & High Alloy Steel, Stainless Steel, Heat-Resisting, Maraging, And Other Similar Chromium-Nickel-Iron Alloys	Sulfur	By ICP-OES-LDM_01_04
424	CHEMICAL- METALS & ALLOYS	Tool Steel, Similar Medium & High Alloy Steel, Stainless Steel, Heat-Resisting, Maraging, And Other Similar Chromium-Nickel-Iron Alloys	Tantalum	By ICP-OES-LDM_01_04
425	CHEMICAL- METALS & ALLOYS	Tool Steel, Similar Medium & High Alloy Steel, Stainless Steel, Heat-Resisting, Maraging, And Other Similar Chromium-Nickel-Iron Alloys	Titanium	By ICP-OES-LDM_01_04
426	CHEMICAL- METALS & ALLOYS	Tool Steel, Similar Medium & High Alloy Steel, Stainless Steel, Heat-Resisting, Maraging, And Other Similar Chromium-Nickel-Iron Alloys	Tungsten	By Gravimetric Method-LDM_01_N
427	CHEMICAL- METALS & ALLOYS	Tool Steel, Similar Medium & High Alloy Steel, Stainless Steel, Heat-Resisting, Maraging, And Other Similar Chromium-Nickel-Iron Alloys	Vanadium	By ICP-OES-ASTM E353
428	CHEMICAL- METALS & ALLOYS	Tool Steel, Similar Medium & High Alloy Steel, Stainless Steel, Heat-Resisting, Maraging, And Other Similar Chromium-Nickel-Iron Alloys	Zirconium	By ICP-OES-LDM_01_04
429	CHEMICAL- METALS & ALLOYS	Zinc & Zinc Alloys	Aluminium	By ICP-OES-ASTM E1277
430	CHEMICAL- METALS & ALLOYS	Zinc & Zinc Alloys	Cadmium	By ICP-OES-ASTM E1277
431	CHEMICAL- METALS & ALLOYS	Zinc & Zinc Alloys	Copper	By ICP-OES-ASTM E1277
432	CHEMICAL- METALS & ALLOYS	Zinc & Zinc Alloys	Iron	By ICP-OES-ASTM E1277
433	CHEMICAL- METALS & ALLOYS	Zinc & Zinc Alloys	Lead	By ICP-OES-ASTM E1277
434	CHEMICAL- METALS & ALLOYS	Zinc & Zinc Alloys	Magnesium	By ICP-OES-ASTM E1277

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435	CHEMICAL- METALS & ALLOYS	Zinc & Zinc Alloys	Nickel	By ICP-OES-LDM_01_04
436	CHEMICAL- METALS & ALLOYS	Zinc & Zinc Alloys	Silicon	By ICP-OES-ASTM E1277
437	CHEMICAL- METALS & ALLOYS	Zinc & Zinc Alloys	Tin	By ICP-OES-ASTM E1277
438	MECHANICAL-MECHANICAL PROPERTIES OF METALS	3L PE Coated Metalic Materials	Cathodic Disbondment Test	ASTM G8 96
439	MECHANICAL-MECHANICAL PROPERTIES OF METALS	3L PE Coated Metalic Materials	Cathodic Disbondment Test	BS EN 3900 F10
440	MECHANICAL-MECHANICAL PROPERTIES OF METALS	3L PE Coated Metalic Materials	Cathodic Disbondment Test	BS EN 3900 F11
441	MECHANICAL-MECHANICAL PROPERTIES OF METALS	3L PE Coated Metalic Materials	Cathodic Disbondment Test	ISO 21809-1 (Annex H)
442	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Carbon Steel, Alloy Steel, and Stainless Steel Nuts, Washer, Externally & Internally Threaded Fasteners, Bolts, Screws, Studs and Rivets	Proof Load Test	ASTM A 370
443	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Carbon Steel, Alloy Steel, and Stainless Steel Nuts, Washer, Externally & Internally Threaded Fasteners, Bolts, Screws, Studs and Rivets	Proof Load Test	ASTM F 606
444	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Carbon Steel, Alloy Steel, and Stainless Steel Nuts, Washer, Externally & Internally Threaded Fasteners, Bolts, Screws, Studs and Rivets	Proof Load Test	IS 1367-3
445	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Carbon Steel, Alloy Steel, and Stainless Steel Nuts, Washer, Externally & Internally Threaded Fasteners, Bolts, Screws, Studs and Rivets	Proof Load Test	IS 1367-6
446	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Carbon Steel, Alloy Steel, and Stainless Steel Nuts, Washer, Externally & Internally Threaded Fasteners, Bolts, Screws, Studs and Rivets	Proof Load Test	ISO 898-1
447	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Carbon Steel, Alloy Steel, and Stainless Steel Nuts, Washer, Externally & Internally Threaded Fasteners, Bolts, Screws, Studs and Rivets	Proof Load Test	ISO 898-2
448	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Carbon Steel, Alloy Steel, and Stainless Steel Nuts, Washer, Externally & Internally Threaded Fasteners, Bolts, Screws, Studs and Rivets	Tensile Test	ASTM A 370

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449	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Carbon Steel, Alloy Steel, and Stainless Steel Nuts, Washer, Externally & Internally Threaded Fasteners, Bolts, Screws, Studs and Rivets	Tensile Test	ASTM F 606
450	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Carbon Steel, Alloy Steel, and Stainless Steel Nuts, Washer, Externally & Internally Threaded Fasteners, Bolts, Screws, Studs and Rivets	Tensile Test	IS 1367-3
451	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Carbon Steel, Alloy Steel, and Stainless Steel Nuts, Washer, Externally & Internally Threaded Fasteners, Bolts, Screws, Studs and Rivets	Tensile Test	ISO 898-1
452	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Carbon Steel, Alloy Steel, and Stainless Steel Nuts, Washer, Externally & Internally Threaded Fasteners, Bolts, Screws, Studs and Rivets	Wedge Tension Testing	ASTM A 370
453	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Carbon Steel, Alloy Steel, and Stainless Steel Nuts, Washer, Externally & Internally Threaded Fasteners, Bolts, Screws, Studs and Rivets	Wedge Tension Testing	ASTM F 606
454	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Carbon Steel, Alloy Steel, and Stainless Steel Nuts, Washer, Externally & Internally Threaded Fasteners, Bolts, Screws, Studs and Rivets	Wedge Tension Testing	IS 1367-3
455	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Carbon Steel, Alloy Steel, and Stainless Steel Nuts, Washer, Externally & Internally Threaded Fasteners, Bolts, Screws, Studs and Rivets	Wedge Tension Testing	ISO 898-1
456	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Case Hardened Steel Specimens	Effective Case Depth Measurement	ASTM E 1077
457	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Case Hardened Steel Specimens	Effective Case Depth Measurement	ASTM F 2328
458	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Case Hardened Steel Specimens	Effective Case Depth Measurement	BS ISO 18203
459	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Case Hardened Steel Specimens	Effective Case Depth Measurement	IS 6396 (RA 2018)
460	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Case Hardened Steel Specimens	Effective Case Depth Measurement	IS 6416 (RA 2018)
461	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Case Hardened Steel Specimens	Effective Case Depth Measurement	ISO 3887
462	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Epoxy Powder for Coating on Metallic Material	Determination of Gel Time	ISO 21809-1 (Annex J)

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463	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metalic Pipe/Tube	Flanging Test	ISO 8494
464	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metalic Pipe/Tube	Flanging Test	ASTM A 1016a
465	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metalic Pipe/Tube	Flanging Test	ASTM A 370
466	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metalic Pipe/Tube	Flaring / Drift Expanding Test	ASTM A 1016a
467	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metalic Pipe/Tube	Flaring / Drift Expanding Test	ASTM A 370
468	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metalic Pipe/Tube	Flaring / Drift Expanding Test	BS EN ISO 8493
469	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metalic Pipe/Tube	Flaring / Drift Expanding Test	IS 2335 (RA 2017)
470	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metalic Pipe/Tube	Flattening Test	ASTM A 1016a
471	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metalic Pipe/Tube	Flattening Test	ASTM A 370
472	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Metalic Pipe/Tube	Flattening Test	ISO 8492
473	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Wrought Products	Tear Test	ASME BPVC SEC-IX
474	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fusion Welded Joints and Weld Metal in Steel	Nick Break Test and Fillet Weld Fracture Test	API 1104
475	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fusion Welded Joints and Weld Metal in Steel	Nick Break Test and Fillet Weld Fracture Test	ASME BPVC SEC-IX
476	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fusion Welded Joints and Weld Metal in Steel	Nick Break Test and Fillet Weld Fracture Test	IS 3600-8 (RA 2019)

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477	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bars (TMT) and Wires for Concrete Reinforcement	1) Bend Test 2) Rebend Test	IS 1786 (RA 2018)
478	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bars (TMT) and Wires for Concrete Reinforcement	1) Bend Test 2) Rebend Test	IS 1599 (RA 2019)
479	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bars (TMT) and Wires for Concrete Reinforcement	1) Bend Test 2) Rebend Test	ISO 15630-1
480	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bars (TMT) and Wires for Concrete Reinforcement	1) Bend Test 2) Rebend Test	ISO 15630-3
481	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bars (TMT) and Wires for Concrete Reinforcement	Mass per meter	ISO 15630-3
482	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bars (TMT) and Wires for Concrete Reinforcement	Mass per meter	IS 1608-1
483	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bars (TMT) and Wires for Concrete Reinforcement	Mass per meter	IS 1786 (RA 2018)
484	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bars (TMT) and Wires for Concrete Reinforcement	Mass per meter	ISO 15630-1
485	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bars (TMT) and Wires for Concrete Reinforcement	Tensile Testing 1) Tensile Strength 2) 0.2% Proof Stress 3) Elongation % 4) Total Elongation	ISO 15630-3
486	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bars (TMT) and Wires for Concrete Reinforcement	Tensile Testing 1) Tensile Strength 2) 0.2% Proof Stress 3) Elongation % 4) Total Elongation	IS 1608-1
487	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bars (TMT) and Wires for Concrete Reinforcement	Tensile Testing 1) Tensile Strength 2) 0.2% Proof Stress 3) Elongation % 4) Total Elongation	IS 1786 (RA 2018)
488	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bars (TMT) and Wires for Concrete Reinforcement	Tensile Testing 1) Tensile Strength 2) 0.2% Proof Stress 3) Elongation % 4) Total Elongation	ISO 15630-1

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489	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic & Non-metallic Coatings	Cross Hatch Adhesion Test	IS 14246
490	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic & Non-metallic Coatings	Cross Hatch AdhesionTest	ASTM D 3359
491	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic & Non-metallic Coatings	Pencil Hardness Test	ASTM D 3363
492	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic & Non-metallic Coatings	Pencil Hardness Test	IS 101 (Part 5 & Section 1) (RA2019)
493	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic and Non Metallic Coatings on Metallic Materials	Coating Pull-Off Strength Test/ Dolly Test	Adhesion Tester (Dolly Test)/ASTM D 4541
494	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic and Non Metallic Coatings on Metallic Materials	Coating Pull-Off Strength Test/ Dolly Test	Adhesion Tester (Dolly Test) ISO 4624
495	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Coating on Metallic Surface 1) Electrodeposited Nickel Coating on Magnetic Metal Substrate 2) Electrodeposited Nickel Coating on Non Magnetic Metal Substrate	Film /Coating Thinkness Measurement	Magnetic Induction Method BS EN ISO 2361
496	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Coating on Metallic Surface 1) Non Magnetic & Conductive Coatings on Magnetic/Ferrous Metal and Non Magnetic/Non-Ferrous Metal Substrate 2) Anodic Coatings on Aluminum Substrate	Film /Coating Thinkness Measurement	Eddy Current or Magnetic Induction Method ASTM B 244 (RA 2021)
497	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Coating on Metallic Surface 1) Non Magnetic & Conductive Coatings on Magnetic/Ferrous Metal and Non Magnetic/Non-Ferrous Metal Substrate	Film /Coating Thinkness Measurement	Magnetic Induction Method ASTM B 499 (RA 2021)e1
498	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Coating on Metallic Surface 1) Non Magnetic & Conductive Coatings on Magnetic/Ferrous Metal and Non Magnetic/Non-Ferrous Metal Substrate	Film /Coating Thinkness Measurement	Magnetic Induction Method ASTM D 7091
499	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Coating on Metallic Surface 1) Non Magnetic & Conductive Coatings on Magnetic/Ferrous Metal and Non Magnetic/Non-Ferrous Metal Substrate	Film /Coating Thinkness Measurement	Magnetic Induction Method IS 3203 (RA 2016)
500	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Coating on Metallic Surface 1) Non Magnetic & Conductive Coatings on Magnetic/Ferrous Metal and Non Magnetic/Non-Ferrous Metal Substrate	Film /Coating Thinkness Measurement	Magnetic Induction Method ISO 2178
501	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Coating on Metallic Surface 1.) Electrodeposited Nickel Coating on Magnetic and Non Magnetic Metal Substrate	Film /Coating Thinkness Measurement	Magnetic Induction Method ASTM B 530 (RA 2021)

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502	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Coating on Metallic Surface using Eddy Current Method	Film /Coating Thinkness Measurement	Eddy Current Method IS 12554-1 (RA 2013)
503	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Coating on Metallic Surface using Eddy Current Method	Film /Coating Thinkness Measurement	Eddy Current Method IS 6012 (RA 2016)
504	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Coating on Metallic Surface using Eddy Current or Magnetic Induction Method	Film /Coating Thinkness Measurement	Eddy Current or Magnetic Induction Method ASTM E 376
505	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Coating on Metallic Surface using Magnetic Induction Method.	Film /Coating Thinkness Measurement	Magnetic Induction Method IS 12554-2 (RA 2013)
506	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	Charpy Impact Testing @ -196° C to Room Temperature	ASME BPVC SEC-IX
507	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	Charpy Impact Testing @ -196° C to Room Temperature	AWS D1.1
508	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	Charpy Impact Testing @ -196° C to Room Temperature	IS 3600-2 (RA 2019)
509	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	1) Tensile Strength (UTS) 2) Elongation % 3) Yield Stress (Ys) 4) Proof Stress 5) Moduls of Elasticity / Young's Modulus (E) 6) Area of Reduction 7) Fracture Strength 8) Poisson's Ratio	IS 1608-1
510	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	1) Tensile Strength (UTS) 2) Elongation % 3) Yield Stress (Ys) 4) Proof Stress 5) Moduls of Elasticity / Young's Modulus (E) 6) Area of Reduction 7) Fracture Strength 8) Poisson's Ratio	API 1104
511	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	1) Tensile Strength (UTS) 2) Elongation % 3) Yield Stress (Ys) 4) Proof Stress 5) Moduls of Elasticity / Young's Modulus (E) 6) Area of Reduction 7) Fracture Strength 8) Poisson's Ratio	ASME BPVC SEC-IX

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512	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	1) Tensile Strength (UTS) 2) Elongation % 3) Yield Stress (Ys) 4) Proof Stress 5) Moduls of Elasticity / Young's Modulus (E) 6) Area of Reduction 7) Fracture Strength 8) Poisson's Ratio	ASTM A 1061ae1
513	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	1) Tensile Strength (UTS) 2) Elongation % 3) Yield Stress (Ys) 4) Proof Stress 5) Moduls of Elasticity / Young's Modulus (E) 6) Area of Reduction 7) Fracture Strength 8) Poisson's Ratio	ASTM A 370
514	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	1) Tensile Strength (UTS) 2) Elongation % 3) Yield Stress (Ys) 4) Proof Stress 5) Moduls of Elasticity / Young's Modulus (E) 6) Area of Reduction 7) Fracture Strength 8) Poisson's Ratio	ASTM A 770 (RA 2018)
515	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	1) Tensile Strength (UTS) 2) Elongation % 3) Yield Stress (Ys) 4) Proof Stress 5) Moduls of Elasticity / Young's Modulus (E) 6) Area of Reduction 7) Fracture Strength 8) Poisson's Ratio	ASTM E 345
516	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	1) Tensile Strength (UTS) 2) Elongation % 3) Yield Stress (Ys) 4) Proof Stress 5) Moduls of Elasticity / Young's Modulus (E) 6) Area of Reduction 7) Fracture Strength 8) Poisson's Ratio	ASTM E8
517	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	1) Tensile Strength (UTS) 2) Elongation % 3) Yield Stress (Ys) 4) Proof Stress 5) Moduls of Elasticity / Young's Modulus (E) 6) Area of Reduction 7) Fracture Strength 8) Poisson's Ratio	AWS D1.1

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518	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	1) Tensile Strength (UTS) 2) Elongation % 3) Yield Stress (Ys) 4) Proof Stress 5) Moduls of Elasticity / Young's Modulus (E) 6) Area of Reduction 7) Fracture Strength 8) Poisson's Ratio	AWS D1.5
519	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	1) Tensile Strength (UTS) 2) Elongation % 3) Yield Stress (Ys) 4) Proof Stress 5) Moduls of Elasticity / Young's Modulus (E) 6) Area of Reduction 7) Fracture Strength 8) Poisson's Ratio	AWS D1.6
520	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	1) Tensile Strength (UTS) 2) Elongation % 3) Yield Stress (Ys) 4) Proof Stress 5) Moduls of Elasticity / Young's Modulus (E) 6) Area of Reduction 7) Fracture Strength 8) Poisson's Ratio	AWS D4.0
521	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	1) Tensile Strength (UTS) 2) Elongation % 3) Yield Stress (Ys) 4) Proof Stress 5) Moduls of Elasticity / Young's Modulus (E) 6) Area of Reduction 7) Fracture Strength 8) Poisson's Ratio	IBR 1950
522	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	1) Tensile Strength (UTS) 2) Elongation % 3) Yield Stress (Ys) 4) Proof Stress 5) Moduls of Elasticity / Young's Modulus (E) 6) Area of Reduction 7) Fracture Strength 8) Poisson's Ratio	IS 3600-1 (RA 2019)
523	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	1) Tensile Strength (UTS) 2) Elongation % 3) Yield Stress (Ys) 4) Proof Stress 5) Moduls of Elasticity / Young's Modulus (E) 6) Area of Reduction 7) Fracture Strength 8) Poisson's Ratio	IS 3600-3

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524	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	1) Tensile Strength (UTS) 2) Elongation % 3) Yield Stress (Ys) 4) Proof Stress 5) Moduls of Elasticity / Young's Modulus (E) 6) Area of Reduction 7) Fracture Strength 8) Poisson's Ratio	IS 3600-4 (RA 2021)
525	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	1) Tensile Strength (UTS) 2) Elongation % 3) Yield Stress (Ys) 4) Proof Stress 5) Moduls of Elasticity / Young's Modulus (E) 6) Area of Reduction 7) Fracture Strength 8) Poisson's Ratio	IS 3711
526	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	1) Tensile Strength (UTS) 2) Elongation % 3) Yield Stress (Ys) 4) Proof Stress 5) Moduls of Elasticity / Young's Modulus (E) 6) Area of Reduction 7) Fracture Strength 8) Poisson's Ratio	IS 7307-1 (RA 2019)
527	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	1) Tensile Strength (UTS) 2) Elongation % 3) Yield Stress (Ys) 4) Proof Stress 5) Moduls of Elasticity / Young's Modulus (E) 6) Area of Reduction 7) Fracture Strength 8) Poisson's Ratio	IS 7310-1
528	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	1) Tensile Strength (UTS) 2) Elongation % 3) Yield Stress (Ys) 4) Proof Stress 5) Moduls of Elasticity / Young's Modulus (E) 6) Area of Reduction 7) Fracture Strength 8) Poisson's Ratio	ISO 377
529	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	1) Tensile Strength (UTS) 2) Elongation % 3) Yield Stress (Ys) 4) Proof Stress 5) Moduls of Elasticity / Young's Modulus (E) 6) Area of Reduction 7) Fracture Strength 8) Poisson's Ratio	ISO 4136

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530	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	1) Tensile Strength (UTS) 2) Elongation % 3) Yield Stress (Ys) 4) Proof Stress 5) Moduls of Elasticity / Young's Modulus (E) 6) Area of Reduction 7) Fracture Strength 8) Poisson's Ratio	ISO 5178
531	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	1) Tensile Strength (UTS) 2) Elongation % 3) Yield Stress (Ys) 4) Proof Stress 5) Moduls of Elasticity / Young's Modulus (E) 6) Area of Reduction 7) Fracture Strength 8) Poisson's Ratio	ISO 6892-1
532	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	1) Tensile Strength (UTS) 2) Elongation % 3) Yield Stress (Ys) 4) Proof Stress 5) Moduls of Elasticity / Young's Modulus (E) 6) Area of Reduction 7) Fracture Strength 8) Poisson's Ratio	ISO 8496
533	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	Brinell Hardness Test	API 1104
534	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	Brinell Hardness Test	ASME BPVC SEC-IX
535	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	Brinell Hardness Test	ASTM A 370
536	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	Brinell Hardness Test	ASTM E 10
537	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	Brinell Hardness Test	ASTM E 140 12b e1
538	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	Brinell Hardness Test	AWS D1.1
539	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	Brinell Hardness Test	AWS D1.5

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540	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	Brinell Hardness Test	AWS D1.6
541	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	Brinell Hardness Test	AWS D4.0
542	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	Brinell Hardness Test	IS 1500-1
543	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	Brinell Hardness Test	IS 1500-4
544	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	Brinell Hardness Test	IS 4258
545	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	Brinell Hardness Test	ISO 18265
546	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	Brinell Hardness Test	ISO 6506-1
547	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	Brinell Hardness Test	ISO 6506-4
548	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	Charpy Impact Testing @ -196° C to Room Temperature	ASTM A 327 (RA 2017)
549	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	Charpy Impact Testing @ -196° C to Room Temperature	API 1104
550	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	Charpy Impact Testing @ -196° C to Room Temperature	ASTM A 370
551	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	Charpy Impact Testing @ -196° C to Room Temperature	ASTM E 23
552	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	Charpy Impact Testing @ -196° C to Room Temperature	AWS D1.5
553	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	Charpy Impact Testing @ -196° C to Room Temperature	AWS D1.6

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554	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	Charpy Impact Testing @ -196° C to Room Temperature	AWS D4.0
555	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	Charpy Impact Testing @ -196° C to Room Temperature	IS 1757-1
556	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	Charpy Impact Testing @ -196° C to Room Temperature	ISO 148-1
557	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	Charpy Impact Testing @ -196° C to Room Temperature	ISO 9016
558	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	Izod Impact Testing	ASTM A 370
559	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	Izod Impact Testing	ASTM D 256 (RA 2018)
560	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	Izod Impact Testing	ASTM E 23
561	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	Izod Impact Testing	IS 1598 (RA 2020)
562	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	Rockwell Hardness Test	API 1104
563	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	Rockwell Hardness Test	ASME BPVC SEC-IX
564	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	Rockwell Hardness Test	ASTM A 370
565	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	Rockwell Hardness Test	ASTM E 140 12b e1
566	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	Rockwell Hardness Test	ASTM E 18
567	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	Rockwell Hardness Test	AWS D1.1

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568	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	Rockwell Hardness Test	AWS D1.5
569	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	Rockwell Hardness Test	AWS D1.6
570	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	Rockwell Hardness Test	AWS D4.0
571	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	Rockwell Hardness Test	IS 1586-1
572	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	Rockwell Hardness Test	IS 4258
573	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	Rockwell Hardness Test	ISO 18265
574	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	Rockwell Hardness Test	ISO 6508-1
575	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	Tension Testing at Elevated Temperature (100 to 800°C) 1) Tensile Strength (UTS) 2) Elongation % 3) Yield Stress (Ys) 4) Moduls of Elasticity / Young's Modulus (E) 5) Area of Reduction 6) Fracture Strength 7) Poisson's Ratio	ISO 6892-2
576	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	Tension Testing at Elevated Temperature (100 to 800°C) 1) Tensile Strength (UTS) 2) Elongation % 3) Yield Stress (Ys) 4) Moduls of Elasticity / Young's Modulus (E) 5) Area of Reduction 6) Fracture Strength 7) Poisson's Ratio	ASTM E 21

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577	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	Tension Testing at Elevated Temperature (100 to 800°C) 1) Tensile Strength (UTS) 2) Elongation % 3) Yield Stress (Ys) 4) Moduls of Elasticity / Young's Modulus (E) 5) Area of Reduction 6) Fracture Strength 7) Poisson's Ratio	IS 1608-2
578	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	Vickers Hardness Test	ASTM E140 12b 9e1
579	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	Vickers Hardness Test	API 1104
580	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	Vickers Hardness Test	ASME BPVC SEC-IX
581	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	Vickers Hardness Test	ASTM A 370
582	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	Vickers Hardness Test	ASTM E 92
583	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	Vickers Hardness Test	AWS D1.1
584	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	Vickers Hardness Test	AWS D1.5
585	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	Vickers Hardness Test	AWS D1.6
586	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	Vickers Hardness Test	AWS D4.0
587	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	Vickers Hardness Test	IS 1501-1
588	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	Vickers Hardness Test	IS 1501-4

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589	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	Vickers Hardness Test	IS 4258
590	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	Vickers Hardness Test	ISO 18265
591	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	Vickers Hardness Test	ISO 6507-1
592	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	Vickers Hardness Test	ISO 6507-4
593	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Casting, Wrought and Weld Products)	Vickers Hardness Test	ISO 9015-1
594	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Metallic Coatings, Casting, Wrought and Weld Products)	1) Bend Test 2) Re-bend Test 3) Face Bend 4) Root Bend 5) Transverse Bend 6) Side Band 7) Weld Join Bend 8) Pipe Bend Test 9) Weld Pipe Bend Test 10) Fillet Weld Fracture	ASTM E 190
595	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Metallic Coatings, Casting, Wrought and Weld Products)	1) Bend Test 2) Re-bend Test 3) Face Bend 4) Root Bend 5) Transverse Bend 6) Side Band 7) Weld Join Bend 8) Pipe Bend Test 9) Weld Pipe Bend Test 10) Fillet Weld Fracture	ASTM E 855 (RA 2013)
596	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Metallic Coatings, Casting, Wrought and Weld Products)	1) Bend Test 2) Re-bend Test 3) Face Bend 4) Root Bend 5) Transverse Bend 6) Side Band 7) Weld Join Bend 8) Pipe Bend Test 9) Weld Pipe Bend Test 10) Fillet Weld Fracture	AWS D1.6
597	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Metallic Coatings, Casting, Wrought and Weld Products)	1) Bend Test 2) Re-bend Test 3) Face Bend 4) Root Bend 5) Transverse Bend 6) Side Band 7) Weld Join Bend 8) Pipe Bend Test 9) Weld Pipe Bend Test 10) Fillet Weld Fracture	IS 3600-7 (RA 2019)

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598	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Metallic Coatings, Casting, Wrought and Weld Products)	1) Bend Test 2) Re-bend Test 3) Face Bend 4) Root Bend 5) Transverse Bend 6) Side Band 7) Weld Join Bend 8) Pipe Bend Test 9) Weld Pipe Bend Test 10) Fillet Weld Fracture	API 1104
599	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Metallic Coatings, Casting, Wrought and Weld Products)	1) Bend Test 2) Re-bend Test 3) Face Bend 4) Root Bend 5) Transverse Bend 6) Side Band 7) Weld Join Bend 8) Pipe Bend Test 9) Weld Pipe Bend Test 10) Fillet Weld Fracture	ASME BPVC SEC-IX
600	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Metallic Coatings, Casting, Wrought and Weld Products)	1) Bend Test 2) Re-bend Test 3) Face Bend 4) Root Bend 5) Transverse Bend 6) Side Band 7) Weld Join Bend 8) Pipe Bend Test 9) Weld Pipe Bend Test 10) Fillet Weld Fracture	ASTM A 370
601	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Metallic Coatings, Casting, Wrought and Weld Products)	1) Bend Test 2) Re-bend Test 3) Face Bend 4) Root Bend 5) Transverse Bend 6) Side Band 7) Weld Join Bend 8) Pipe Bend Test 9) Weld Pipe Bend Test 10) Fillet Weld Fracture	ASTM B 820
602	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Metallic Coatings, Casting, Wrought and Weld Products)	1) Bend Test 2) Re-bend Test 3) Face Bend 4) Root Bend 5) Transverse Bend 6) Side Band 7) Weld Join Bend 8) Pipe Bend Test 9) Weld Pipe Bend Test 10) Fillet Weld Fracture	ASTM E 290
603	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Metallic Coatings, Casting, Wrought and Weld Products)	1) Bend Test 2) Re-bend Test 3) Face Bend 4) Root Bend 5) Transverse Bend 6) Side Band 7) Weld Join Bend 8) Pipe Bend Test 9) Weld Pipe Bend Test 10) Fillet Weld Fracture	AWS D1.1
604	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Metallic Coatings, Casting, Wrought and Weld Products)	1) Bend Test 2) Re-bend Test 3) Face Bend 4) Root Bend 5) Transverse Bend 6) Side Band 7) Weld Join Bend 8) Pipe Bend Test 9) Weld Pipe Bend Test 10) Fillet Weld Fracture	AWS D1.5

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605	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Metallic Coatings, Casting, Wrought and Weld Products)	1) Bend Test 2) Re-bend Test 3) Face Bend 4) Root Bend 5) Transverse Bend 6) Side Band 7) Weld Join Bend 8) Pipe Bend Test 9) Weld Pipe Bend Test 10) Fillet Weld Fracture	AWS D4.0
606	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Metallic Coatings, Casting, Wrought and Weld Products)	1) Bend Test 2) Re-bend Test 3) Face Bend 4) Root Bend 5) Transverse Bend 6) Side Band 7) Weld Join Bend 8) Pipe Bend Test 9) Weld Pipe Bend Test 10) Fillet Weld Fracture	BS EN ISO 5173 2010 + A1
607	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Metallic Coatings, Casting, Wrought and Weld Products)	1) Bend Test 2) Re-bend Test 3) Face Bend 4) Root Bend 5) Transverse Bend 6) Side Band 7) Weld Join Bend 8) Pipe Bend Test 9) Weld Pipe Bend Test 10) Fillet Weld Fracture	BS EN ISO 8491
608	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Metallic Coatings, Casting, Wrought and Weld Products)	1) Bend Test 2) Re-bend Test 3) Face Bend 4) Root Bend 5) Transverse Bend 6) Side Band 7) Weld Join Bend 8) Pipe Bend Test 9) Weld Pipe Bend Test 10) Fillet Weld Fracture	IBR 1950
609	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Metallic Coatings, Casting, Wrought and Weld Products)	1) Bend Test 2) Re-bend Test 3) Face Bend 4) Root Bend 5) Transverse Bend 6) Side Band 7) Weld Join Bend 8) Pipe Bend Test 9) Weld Pipe Bend Test 10) Fillet Weld Fracture	IS 1599
610	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Metallic Coatings, Casting, Wrought and Weld Products)	1) Bend Test 2) Re-bend Test 3) Face Bend 4) Root Bend 5) Transverse Bend 6) Side Band 7) Weld Join Bend 8) Pipe Bend Test 9) Weld Pipe Bend Test 10) Fillet Weld Fracture	IS 1786 (RA 2018)
611	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Metallic Coatings, Casting, Wrought and Weld Products)	1) Bend Test 2) Re-bend Test 3) Face Bend 4) Root Bend 5) Transverse Bend 6) Side Band 7) Weld Join Bend 8) Pipe Bend Test 9) Weld Pipe Bend Test 10) Fillet Weld Fracture	IS 3600-5

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612	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Metallic Coatings, Casting, Wrought and Weld Products)	1) Bend Test 2) Re-bend Test 3) Face Bend 4) Root Bend 5) Transverse Bend 6) Side Band 7) Weld Join Bend 8) Pipe Bend Test 9) Weld Pipe Bend Test 10) Fillet Weld Fracture	IS 7307-1 (RA 2019)
613	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Metallic Coatings, Casting, Wrought and Weld Products)	1) Bend Test 2) Re-bend Test 3) Face Bend 4) Root Bend 5) Transverse Bend 6) Side Band 7) Weld Join Bend 8) Pipe Bend Test 9) Weld Pipe Bend Test 10) Fillet Weld Fracture	IS 7310-1
614	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Metallic Coatings, Casting, Wrought and Weld Products)	1) Bend Test 2) Re-bend Test 3) Face Bend 4) Root Bend 5) Transverse Bend 6) Side Band 7) Weld Join Bend 8) Pipe Bend Test 9) Weld Pipe Bend Test 10) Fillet Weld Fracture	ISO 7438
615	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Metallic Coatings, Casting, Wrought and Weld Products)	Micro-Vickers Hardness Test	IS 9530 (RA 2016)
616	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Metallic Coatings, Casting, Wrought and Weld Products)	Micro-Vickers Hardness Test	ASTM E 384
617	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Metallic Coatings, Casting, Wrought and Weld Products)	Micro-Vickers Hardness Test	ISO 14271
618	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Metallic Coatings, Casting, Wrought and Weld Products)	Micro-Vickers Hardness Test	ISO 4516
619	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials (Metallic Coatings, Casting, Wrought and Weld Products)	Micro-Vickers Hardness Test	ISO 9015-2
620	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials	Surface Roughness Measurement	Surface Roughness Using Portable Stylus Instrument ASTM D 7127
621	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials, Ferrous & Non-Ferrous Materials	Surface Roughness Measurement	Surface Roughness Using Portable Stylus Instrument ISO 3274

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622	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Non-Ferrous Materials (Cast and Wrought Products) &Wrought and Cast Aluminum and Magnisum Alloy	1) Tensile Strength (UTS) 2) Elongation % 3) Yield Stress (Ys) 4) Proof Stress 5) Moduls of Elasticity / Young's Modulus (E) 6) Area of Reduction 7) Fracture Strength 8) Poisson's Ratio	ASTM B 557
623	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Non-Ferrous Materials (Cast and Wrought Products) &Wrought and Cast Aluminum and Magnisum Alloy	1) Tensile Strength (UTS) 2) Elongation % 3) Yield Stress (Ys) 4) Proof Stress 5) Moduls of Elasticity / Young's Modulus (E) 6) Area of Reduction 7) Fracture Strength 8) Poisson's Ratio	IS 10810-2 (RA 2016)
624	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Sheet Materials, Ferrous & Non-Ferrous	Erichsen Cupping Test	ASTM E 643
625	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Sheet Materials, Ferrous & Non-Ferrous	Erichsen Cupping Test	IS 10175
626	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Sheet Materials, Ferrous & Non-Ferrous	Erichsen Cupping Test	IS 10175-1 (RA 2009)
627	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Sheet Materials, Ferrous & Non-Ferrous	Erichsen Cupping Test	ISO 20482
628	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Metallic Coating on Metallic Surface using Eddy Current or Magnetic Induction Method	Film/Coating Thickness Measurement	Eddy Current or Magnetic Induction Method ISO 2178
629	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Metallic Coating on Metallic Surface using Eddy Current or Magnetic Induction Method	Film/Coating Thickness Measurement	Eddy Current or Magnetic Induction Method ASTM B 499 (RA 2021) e1
630	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Metallic Coating on Metallic Surface using Eddy Current or Magnetic Induction Method	Film/Coating Thickness Measurement	Eddy Current or Magnetic Induction Method ASTM D 7091
631	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Metallic Coating on Metallic Surface using Eddy Current or Magnetic Induction Method	Film/Coating Thickness Measurement	Eddy Current or Magnetic Induction Method ASTM E 376
632	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Metallic Coating on Metallic Surface using Eddy Current or Magnetic Induction Method	Film/Coating Thickness Measurement	Eddy Current or Magnetic Induction Method IS 101-3 Sec 2 (RA 2019)

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633	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Metallic Coating on Metallic Surface using Eddy Current or Magnetic Induction Method	Film/Coating Thickness Measurement	Eddy Current or Magnetic Induction Method IS 12554-1 (RA 2013)
634	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Metallic Coating on Metallic Surface using Eddy Current or Magnetic Induction Method	Film/Coating Thickness Measurement	Eddy Current or Magnetic Induction Method IS 6012 (RA 2016)
635	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Metallic Coating on Metallic Surface using Eddy Current or Magnetic Induction Method	Film/Coating Thickness Measurement	Eddy Current or Magnetic Induction Method ASTM B 244 (RA 2021)
636	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Metallic Coating on Metallic Surface using Eddy Current or Magnetic Induction Method	Film/Coating Thickness Measurement	Eddy Current or Magnetic Induction Method IS 12554-2 (RA 2013)
637	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Metallic Coating on Metallic Surface using Eddy Current or Magnetic Induction Method	Film/Coating Thickness Measurement	Eddy Current or Magnetic Induction Method ISO 2360
638	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plastics, Ebonite, Polyethylyne (PE) Coated on Metallic Material	Density and Specific Gravity Determination	ASTM D 792
639	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plastics, Ebonite, Polyethylyne (PE) Coated on Metallic Material	Density and Specific Gravity Determination	ISO 1183-1
640	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plastics, Ebonite, Polyethylyne (PE) Coated on Metallic Material	Density and Specific Gravity Determination	ISO 21809-1 (Annex N)
641	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plastics, Ebonite, Polyethylyne (PE) Coated on Metallic Material	Shore D Hardness	ISO 868
642	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plastics, Epoxy Coated on Metallic Material	Water Absorption Test	ASTM D 570 (RA 2018)
643	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforced Coupler for Mechanical Splices of Bars (TMT) in Concerete	Slip Test	IS 16172 (RA 2019)
644	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforced Coupler for Mechanical Splices of Bars (TMT) in Concerete	Slip Test	ISO 15835-2
645	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforced Coupler for Mechanical Splices of Bars (TMT) in Concerete	Tensile Testing 1) Tensile Strength 2) % Elongation	IS 16172 (RA 2019)
646	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforced Coupler for Mechanical Splices of Bars (TMT) in Concerete	Tensile Testing 1) Tensile Strength 2) % Elongation	ISO 15835-2

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647	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Soilid Round Glass Fiber Reinforced Polymer Bars for Concrete Reinforcement	Tensile Testing	ASTM D 7205
648	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Soilid Round Glass Fiber Reinforced Polymer Bars for Concrete Reinforcement	Tensile Testing	ASTM D 7957
649	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Thermo Plastics, Polyethylyne (PE) Coated on Metallic Material	Determination of Vicat Softening Temperatrue (VST)	ASTM D 1525e1
650	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Thermo Plastics, Polyethylyne (PE) Coated on Metallic Material	Determination of Vicat Softening Temperatrue (VST)	ISO 306
651	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Thermo Plastics, Polyethylyne (PE), Adhesives for Coating on Metallic Material	Determination of the melt mass-flow rate (MFR) and melt volume -flow rate (MVR) of thermoplastics by extrusion plastometer	ASTM D 1238
652	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Thermo Plastics, Polyethylyne (PE), Adhesives for Coating on Metallic Material	Determination of the melt mass-flow rate (MFR) and melt volume -flow rate (MVR) of thermoplastics by extrusion plastometer	ISO 1133-1
653	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Thermo Plastics, Polyethylyne (PE), Adhesives for Coating on Metallic Material	Determination of Water/ Moisture Content	ISO 15512
654	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Thermo Plastics, Polyethylyne (PE), Adhesives for Coating on Metallic Material	Determination of Water/ Moisture Content	ISO 21809-1 (Annex K)
655	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Uncoated Stress Relieved Low Relaxation Seven Wire (PLY) Strand for Prestressed Concrete	Mass per unit length	IS 14268
656	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Uncoated Stress Relieved Low Relaxation Seven Wire (PLY) Strand for Prestressed Concrete	Stress Relaxation Test	IS 14268
657	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Uncoated Stress Relieved Low Relaxation Seven Wire (PLY) Strand for Prestressed Concrete	Tensile Testing, Breaking Strength, 0.2% Proof Load, % Elongation	IS 14268
658	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded High Strength steel Bars for Reinforced Concrete Construction	Bend Test	IS 9417

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659	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded High Strength steel Bars for Reinforced Concrete Construction	Tensile Strength	IS 9417
660	MECHANICAL-METALLOGRAPHY TEST	Case Hardening Depth in Steel/Cast Iron Specimens	Case Depth Measurement	ASTM F 2328
661	MECHANICAL-METALLOGRAPHY TEST	Case Hardening Depth in Steel/Cast Iron Specimens	Case Depth Measurement	BS ISO 18203
662	MECHANICAL-METALLOGRAPHY TEST	Case Hardening Depth in Steel/Cast Iron Specimens	Case Depth Measurement	IS 6416 (RA 2018)
663	MECHANICAL-METALLOGRAPHY TEST	Cast Iron Products	1) Microstructure of Graphite in Iron Castings 2) Nodularity and Nodule Count in Ductile Iron	ASTM A 247
664	MECHANICAL-METALLOGRAPHY TEST	Cast Iron Products	1) Microstructure of Graphite in Iron Castings 2) Nodularity and Nodule Count in Ductile Iron	ASTM E 2567a
665	MECHANICAL-METALLOGRAPHY TEST	Cast Iron Products	1) Microstructure of Graphite in Iron Castings 2) Nodularity and Nodule Count in Ductile Iron	IS 7754 (RA 2018)
666	MECHANICAL-METALLOGRAPHY TEST	Cast Iron Products	1) Microstructure of Graphite in Iron Castings 2) Nodularity and Nodule Count in Ductile Iron	ISO 945-1
667	MECHANICAL-METALLOGRAPHY TEST	Cast Iron Products	1) Microstructure of Graphite in Iron Castings 2) Nodularity and Nodule Count in Ductile Iron	ISO 945-2
668	MECHANICAL-METALLOGRAPHY TEST	Cast Iron Products	1) Microstructure of Graphite in Iron Castings 2) Nodularity and Nodule Count in Ductile Iron	ISO 945-3
669	MECHANICAL-METALLOGRAPHY TEST	Cast Iron Products	1) Microstructure of Graphite in Iron Castings 2) Nodularity and Nodule Count in Ductile Iron	ISO 945-4
670	MECHANICAL-METALLOGRAPHY TEST	Copper and Copper Alloys	Grain Size Determination	BS EN ISO 2624
671	MECHANICAL-METALLOGRAPHY TEST	Decarburization Depth in Steel Specimens	Estimating the Decarburization Depth	ASTM E 1077 14
672	MECHANICAL-METALLOGRAPHY TEST	Decarburization Depth in Steel Specimens	Estimating the Decarburization Depth	ASTM F 2328
673	MECHANICAL-METALLOGRAPHY TEST	Decarburization Depth in Steel Specimens	Estimating the Decarburization Depth	IS 6396 (RA 2018)
674	MECHANICAL-METALLOGRAPHY TEST	Decarburization Depth in Steel Specimens	Estimating the Decarburization Depth	ISO 3887

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
675	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non-Ferrous Metals & Alloy Products	Determining Phase Volume Fraction	Automatic Image Analysis Method ASTM E 1245 (RA2016)
676	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non-Ferrous Metals & Alloy Products	Determining Phase Volume Fraction	Systematic Manual Point Count Method ASTM E 562e1
677	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non-Ferrous Metals & Alloy Products	Macroscopic and Microscopic Examination	API 1104
678	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non-Ferrous Metals & Alloy Products	Macroscopic and Microscopic Examination	ASME BPVC SEC-IX
679	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non-Ferrous Metals & Alloy Products	Macroscopic and Microscopic Examination	IBR 1950
680	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non-Ferrous Metals & Alloy Products	Macroscopic and Microscopic Examination	IS 3600-9 (RA 2019)
681	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non-Ferrous Metals & Alloy Products	Macroscopic and Microscopic Examination	IS 7310-1
682	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non-Ferrous Metals & Alloy Products	Macroscopic and Microscopic Examination	ISO 17639
683	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non-Ferrous Metals & Alloy Products	Grain Size Determination	ASTM E 112
684	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non-Ferrous Metals & Alloy Products	Grain Size Determination	ASTM E 1382 (RA 2015)
685	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non-Ferrous Metals & Alloy Products	Grain Size Determination	Comparision Method ASTM E1181 (RA 2015)
686	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non-Ferrous Metals & Alloy Products	Grain Size Determination	IS 15426 (RA 2017)
687	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non-Ferrous Metals & Alloy Products	Grain Size Determination	IS 4748 (RA 2017)
688	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non-Ferrous Metals & Alloy Products	Grain Size Determination	ISO 14250
689	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non-Ferrous Metals & Alloy Products	Grain Size Determination	ISO 643
690	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non-Ferrous Metals & Alloy Products	Macro Etch Test	ASTM E 340
691	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non-Ferrous Metals & Alloy Products	Macro Etch Test	ASTM E 381
692	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non-Ferrous Metals & Alloy Products (Cast, Wrought, Rolled, Extruded, Deformed, Powder Metallurgy, SLM, Welded and Forged)	Microetching and Evaluation of Micro-Structure	ASM Handbook Volume-9

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
693	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non-Ferrous Metals & Alloy Products (Cast, Wrought, Rolled, Extruded, Deformed, Powder Metallurgy, SLM, Welded and Forged)	Microetching and Evaluation of Micro-Structure	ASTM D 1976
694	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non-Ferrous Metals & Alloy Products (Cast, Wrought, Rolled, Extruded, Deformed, Powder Metallurgy, SLM, Welded and Forged)	Microetching and Evaluation of Micro-Structure	ASTM E3 (RA 2017)
695	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non-Ferrous Metals & Alloy Products (Cast, Wrought, Rolled, Extruded, Deformed, Powder Metallurgy, SLM, Welded and Forged)	Microetching and Evaluation of Micro-Structure	ASTM E407-07 e1
696	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non-Ferrous Metals & Alloy Products (Cast, Wrought, Rolled, Extruded, Deformed, Powder Metallurgy, SLM, Welded and Forged)	Microetching and Evaluation of Micro-Structure	IBR 1950
697	MECHANICAL-METALLOGRAPHY TEST	Ferrous and Non-Ferrous Metals & Alloy Products (Cast, Wrought, Rolled, Extruded, Deformed, Powder Metallurgy, SLM, Welded and Forged)	Microetching and Evaluation of Micro-Structure	ISO 17781
698	MECHANICAL-METALLOGRAPHY TEST	Ferrous Metals & Alloy Products	Microstructure Examination	Identification of Microstructure in Cemented Carbides ASTM B 657
699	MECHANICAL-METALLOGRAPHY TEST	Metallic , Non Metallic and Oxide Coating on Metallic Surface	Coating Thickness Measurement	Microscopic Method ASTM B 487
700	MECHANICAL-METALLOGRAPHY TEST	Metallic Coating on Metallic Surface	Measurement of mass of coating	ASTM A 428
701	MECHANICAL-METALLOGRAPHY TEST	Metallic Coating on Metallic Surface	Measurement of mass of coating	ASTM A 90
702	MECHANICAL-METALLOGRAPHY TEST	Metallic Coating on Metallic Surface	Measurement of mass of coating	ASTM B 137 (RA 2014)
703	MECHANICAL-METALLOGRAPHY TEST	Metallic Coating on Metallic Surface	Measurement of mass of coating	IS 15961
704	MECHANICAL-METALLOGRAPHY TEST	Metallic Coating on Metallic Surface	Measurement of mass of coating	IS 3203 (RA 2016)
705	MECHANICAL-METALLOGRAPHY TEST	Metallic Coating on Metallic Surface	Measurement of mass of coating	IS 6745 (RA 2016)
706	MECHANICAL-METALLOGRAPHY TEST	Metallic Coating on Metallic Surface	Measurement of mass of coating	ISO 3892
707	MECHANICAL-METALLOGRAPHY TEST	Metallic, Non Metallic and Oxide Coating on Metallic Surface	Coating Thickness Measurement	ASTM C 664 (RA 2020)
708	MECHANICAL-METALLOGRAPHY TEST	Metallic, Non Metallic and Oxide Coating on Metallic Surface	Coating Thickness Measurement	IS 101-3 Sec 2 (RA 2019)
709	MECHANICAL-METALLOGRAPHY TEST	Metallic, Non Metallic and Oxide Coating on Metallic Surface	Coating Thickness Measurement	IS 3203 (RA 2016)

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
710	MECHANICAL-METALLOGRAPHY TEST	Metallic, Non Metallic and Oxide Coating on Metallic Surface	Coating Thickness Measurement	ISO 1463
711	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel Casting, Austenitic Alloy, Duplex (Ferritic/Austenitic) Stainless Steel and Austenitic & Duplex Weld Metals	Ferrite Number (FN) Measurement	ASTM A 800
712	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel Casting, Austenitic Alloy, Duplex (Ferritic/Austenitic) Stainless Steel and Austenitic & Duplex Weld Metals	Ferrite Number (FN) Measurement	BS EN ISO 8249
713	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel Casting, Austenitic Alloy, Duplex (Ferritic/Austenitic) Stainless Steel and Austenitic & Duplex Weld Metals	Ferrite Number (FN) Measurement	IS 15839
714	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel Casting, Austenitic Alloy, Duplex (Ferritic/Austenitic) Stainless Steel and Austenitic & Duplex Weld Metals	Ferrite Number (FN) Measurement	ISO 13520
715	MECHANICAL-METALLOGRAPHY TEST	Steel Casting, Austenitic Alloy, Duplex (Ferritic/Austenitic) Stainless Steel and Austenitic & Duplex Weld Metals	Ferrite Percentage (%) Measurement	ASTM A 800
716	MECHANICAL-METALLOGRAPHY TEST	Steel Casting, Austenitic Alloy, Duplex (Ferritic/Austenitic) Stainless Steel and Austenitic & Duplex Weld Metals	Ferrite Percentage (%) Measurement	IS 15839 (RA 2017)
717	MECHANICAL-METALLOGRAPHY TEST	Steel Casting, Austenitic Alloy, Duplex (Ferritic/Austenitic) Stainless Steel and Austenitic & Duplex Weld Metals	Ferrite Percentage (%) Measurement	ISO 13520
718	MECHANICAL-METALLOGRAPHY TEST	Steel Products	Determining the Inclusion Content/ Rating	ASTM E45a
719	MECHANICAL-METALLOGRAPHY TEST	Steel Products	Determining the Inclusion Content/ Rating	IS 4163
720	MECHANICAL-METALLOGRAPHY TEST	Steel Products	Determining the Inclusion Content/ Rating	ISO 4967
721	MECHANICAL-METALLOGRAPHY TEST	Steel Products	Microstructure Examination	Defining and Rating The Microstructure of High Carbon Bearing Steels ASTM A 892 (RA 2020)
722	MECHANICAL-METALLOGRAPHY TEST	Zinc Coating on Metallic Surface	Uniformity test of Zinc Coating	IS 2633 (RA 2006)