National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	TATA STEEL LONG PRODUCTS LIMITED (MATERIAL TESTING LABORATORY), PHASE-V, ADITYAPUR INDUSTRIAL AREA, GAMHARIA, ADITYAPUR, SARAIKELA KHARSAWAN, JHARKHAND, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
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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
LOCATION 1-PHASE-V, ADITYAPUR INDUSTRIAL AREA, GAMHARIA, ADITYAPUR, SARAIKELA KHARSAWAN, JHARKHAND, INDIA Permanent Facility				
1	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel: BILLET, BLOOMS, ROUND CORNER SQUARE, ROUND BAR, HEXAGON, FLAT	Aluminum	ASTM E 415
2	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel: BILLET, BLOOMS, ROUND CORNER SQUARE, ROUND BAR, HEXAGON, FLAT	Aluminum	IS 8811
3	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel: BILLET, BLOOMS, ROUND CORNER SQUARE, ROUND BAR, HEXAGON, FLAT	Arsenic	ASTM E 415
4	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel: BILLET, BLOOMS, ROUND CORNER SQUARE, ROUND BAR, HEXAGON, FLAT	Arsenic	IS 8811
5	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel: BILLET, BLOOMS, ROUND CORNER SQUARE, ROUND BAR, HEXAGON, FLAT	Boron	ASTM E415
6	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel: BILLET, BLOOMS, ROUND CORNER SQUARE, ROUND BAR, HEXAGON, FLAT	Boron	IS 8811
7	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel: BILLET, BLOOMS, ROUND CORNER SQUARE, ROUND BAR, HEXAGON, FLAT	Carbon	ASTM E 1019
8	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel: BILLET, BLOOMS, ROUND CORNER SQUARE, ROUND BAR, HEXAGON, FLAT	Carbon	ASTM E 415
9	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel: BILLET, BLOOMS, ROUND CORNER SQUARE, ROUND BAR, HEXAGON, FLAT	Carbon	IS 8811
10	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel: BILLET, BLOOMS, ROUND CORNER SQUARE, ROUND BAR, HEXAGON, FLAT	Chromium	ASTM E 415
11	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel: BILLET, BLOOMS, ROUND CORNER SQUARE, ROUND BAR, HEXAGON, FLAT	Chromium	IS 8811
12	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel: BILLET, BLOOMS, ROUND CORNER SQUARE, ROUND BAR, HEXAGON, FLAT	Cobalt	ASTM E 415
13	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel: BILLET, BLOOMS, ROUND CORNER SQUARE, ROUND BAR, HEXAGON, FLAT	Cobalt	IS 8811
14	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel: BILLET, BLOOMS, ROUND CORNER SQUARE, ROUND BAR, HEXAGON, FLAT	Copper	ASTM E 415
15	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel: BILLET, BLOOMS, ROUND CORNER SQUARE, ROUND BAR, HEXAGON, FLAT	Copper	IS 8811
16	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel: BILLET, BLOOMS, ROUND CORNER SQUARE, ROUND BAR, HEXAGON, FLAT	Manganese	ASTM E 415
17	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel: BILLET, BLOOMS, ROUND CORNER SQUARE, ROUND BAR, HEXAGON, FLAT	Manganese	IS 8811
18	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel: BILLET, BLOOMS, ROUND CORNER SQUARE, ROUND BAR, HEXAGON, FLAT	Molybdenum	ASTM E415

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19	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel: BILLET, BLOOMS, ROUND CORNER SQUARE, ROUND BAR, HEXAGON, FLAT	Molybdenum	IS 8811
20	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel: BILLET, BLOOMS, ROUND CORNER SQUARE, ROUND BAR, HEXAGON, FLAT	Nickel	ASTM E415
21	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel: BILLET, BLOOMS, ROUND CORNER SQUARE, ROUND BAR, HEXAGON, FLAT	Nickel	IS 8811
22	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel: BILLET, BLOOMS, ROUND CORNER SQUARE, ROUND BAR, HEXAGON, FLAT	Nitrogen	ASTM E 1019
23	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel: BILLET, BLOOMS, ROUND CORNER SQUARE, ROUND BAR, HEXAGON, FLAT	Oxygen	ASTM E 1019
24	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel: BILLET, BLOOMS, ROUND CORNER SQUARE, ROUND BAR, HEXAGON, FLAT	Phosphorous	ASTM E415
25	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel: BILLET, BLOOMS, ROUND CORNER SQUARE, ROUND BAR, HEXAGON, FLAT	Phosphorous	IS 8811
26	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel: BILLET, BLOOMS, ROUND CORNER SQUARE, ROUND BAR, HEXAGON, FLAT	Silicon	ASTM E415
27	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel: BILLET, BLOOMS, ROUND CORNER SQUARE, ROUND BAR, HEXAGON, FLAT	Silicon	IS 8811
28	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel: BILLET, BLOOMS, ROUND CORNER SQUARE, ROUND BAR, HEXAGON, FLAT	Sulphur	ASTM E 1019
29	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel: BILLET, BLOOMS, ROUND CORNER SQUARE, ROUND BAR, HEXAGON, FLAT	Sulphur	ASTM E415
30	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel: BILLET, BLOOMS, ROUND CORNER SQUARE, ROUND BAR, HEXAGON, FLAT	Sulphur	IS 8811
31	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel: BILLET, BLOOMS, ROUND CORNER SQUARE, ROUND BAR, HEXAGON, FLAT	Tin	ASTM E 415
32	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel: BILLET, BLOOMS, ROUND CORNER SQUARE, ROUND BAR, HEXAGON, FLAT	Tin	IS 8811
33	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel: BILLET, BLOOMS, ROUND CORNER SQUARE, ROUND BAR, HEXAGON, FLAT	Titanium	ASTM E 415
34	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel: BILLET, BLOOMS, ROUND CORNER SQUARE, ROUND BAR, HEXAGON, FLAT	Titanium	IS 8811
35	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel: BILLET, BLOOMS, ROUND CORNER SQUARE, ROUND BAR, HEXAGON, FLAT	Vanadium	ASTM E 415
36	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel: BILLET, BLOOMS, ROUND CORNER SQUARE, ROUND BAR, HEXAGON, FLAT	Vanadium	IS 8811
37	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel; BILLET, BLOOMS, ROUND CORNER SQUARE, ROUND BAR, HEXAGON, FLAT	Hydrogen	IS 228 (Part 22)

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38	CHEMICAL- METALS & ALLOYS	Sponge Iron	Carbon	ASTM E 1019
39	CHEMICAL- METALS & ALLOYS	Sponge Iron	Metallic Iron, Fe(M)	WI/QA/08/22 (Issue No.-03)
40	CHEMICAL- METALS & ALLOYS	Sponge Iron	Sulphur	ASTM E 1019
41	CHEMICAL- ORES & MINERALS	Iron Ore	Aluminium Oxide	WI/QA/08/26 (Issue No.-03)
42	CHEMICAL- ORES & MINERALS	Iron Ore	Silicon dioxide	WI/QA/08/26 (Issue No.-03)
43	CHEMICAL- ORES & MINERALS	Iron Ore	Total iron as Fe(T)	WI/QA/08/26 (Issue No.-03)
44	CHEMICAL- ORES & MINERALS	Iron Ore Pellet	Aluminium Oxide	WI/QA/08/26 (Issue No.-03)
45	CHEMICAL- ORES & MINERALS	Iron Ore Pellet	Cold Compression Strength (CCS)	IS 8625
46	CHEMICAL- ORES & MINERALS	Iron Ore Pellet	Reducibility Index (RI)	IS 8167
47	CHEMICAL- ORES & MINERALS	Iron Ore Pellet	Reduction Degradation Index (RDI)	IS 10823
48	CHEMICAL- ORES & MINERALS	Iron Ore Pellet	Silicon dioxide	WI/QA/08/26 (Issue No.-03)
49	CHEMICAL- ORES & MINERALS	Iron Ore Pellet	Total iron as Fe(T)	WI/QA/08/26 (Issue No.-03)
50	CHEMICAL- ORES & MINERALS	Iron Ore Sinter	Aluminium Oxide	WI/QA/08/26(Issue No.-03)
51	CHEMICAL- ORES & MINERALS	Iron Ore Sinter	Calcium oxide	WI/QA/08/26 (Issue No.-03)
52	CHEMICAL- ORES & MINERALS	Iron Ore Sinter	Magnesium oxide	WI/QA/08/26 (Issue No.-03)
53	CHEMICAL- ORES & MINERALS	Iron Ore Sinter	Reducibility Index (RI)	IS 8167
54	CHEMICAL- ORES & MINERALS	Iron Ore Sinter	Reduction Degradation Index (RDI)	IS 10823
55	CHEMICAL- ORES & MINERALS	Iron Ore Sinter	Silicon dioxide	WI/QA/08/26 (Issue No.-03)
56	CHEMICAL- ORES & MINERALS	Iron Ore Sinter	Total iron as Fe(T)	WI/QA/08/26 :(Issue No.-03)

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57	CHEMICAL- ORES & MINERALS	Limestone,Calcined Lime,Dolomite ,Calcined Dolo	Aluminium Oxide	ASTM C 1271
58	CHEMICAL- ORES & MINERALS	Limestone,Calcined Lime,Dolomite ,Calcined Dolo	Calcium oxide	ASTM C 1271
59	CHEMICAL- ORES & MINERALS	Limestone,Calcined Lime,Dolomite ,Calcined Dolo	Loss on Ignition (LOI)	IS 1760 (Part 1)
60	CHEMICAL- ORES & MINERALS	Limestone,Calcined Lime,Dolomite ,Calcined Dolo	Magnesium oxide	ASTM C 1271
61	CHEMICAL- ORES & MINERALS	Limestone,Calcined Lime,Dolomite ,Calcined Dolo	Silicon dioxide	ASTM C 1271
62	CHEMICAL- ORES & MINERALS	Quartzite	Silica	WI/QA/08/26 (Issue No.-03)
63	CHEMICAL- SOLID FUELS	Coal	Ash	IS 1350 (Part 1)
64	CHEMICAL- SOLID FUELS	Coal	Crucible Swelling Index (CSN)	IS 1353: Part-1
65	CHEMICAL- SOLID FUELS	Coal	Volatile Matter (VM)	IS 1350 (Part 1)
66	CHEMICAL- SOLID FUELS	Coke	Ash	IS 1350 (Part 1)
67	CHEMICAL- SOLID FUELS	Coke	Coke Reactivity Index (CRI)	IS 4023
68	CHEMICAL- SOLID FUELS	Coke	Coke Strength after Reaction (CSR)	IS 4023
69	CHEMICAL- SOLID FUELS	Coke	Volatile Matter (VM)	IS 1350 (Part 1)
70	MECHANICAL- MECHANICAL PROPERTIES OF METALS	STEEL BILLET, BLOOMS, ROUND CORNER SQUARE, ROUND BAR, HEXAGON, FLAT	0.2% Proof Strength	IS 1608 (Part-1)
71	MECHANICAL- MECHANICAL PROPERTIES OF METALS	STEEL BILLET, BLOOMS, ROUND CORNER SQUARE, ROUND BAR, HEXAGON, FLAT	Tensile Strength	IS 1608 (Part-1)
72	MECHANICAL- MECHANICAL PROPERTIES OF METALS	STEEL BILLET, BLOOMS, ROUND CORNER SQUARE, ROUND BAR, HEXAGON, FLAT	Yield Stress	IS 1608(Part-1)
73	MECHANICAL- MECHANICAL PROPERTIES OF METALS	STEEL ROUND CORNER SQUARE, ROUND BAR, HEXAGON, FLAT	0.2% Proof stress	ASTM E8/8M
74	MECHANICAL- MECHANICAL PROPERTIES OF METALS	STEEL ROUND CORNER SQUARE, ROUND BAR, HEXAGON, FLAT	BRINELL HARDNESS TEST (10/3000)	IS 1500(Part 1)
75	MECHANICAL- MECHANICAL PROPERTIES OF METALS	STEEL ROUND CORNER SQUARE, ROUND BAR, HEXAGON, FLAT	BRINELL HARDNESS TEST(10 /3000)	ASTM E10

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76	MECHANICAL-MECHANICAL PROPERTIES OF METALS	STEEL ROUND CORNER SQUARE, ROUND BAR, HEXAGON, FLAT	CHARPY 'V' NOTCH- IMPACT TEST(AT AMBIENT TEMPERATURE)	IS 1757 (Part-1)
77	MECHANICAL-MECHANICAL PROPERTIES OF METALS	STEEL ROUND CORNER SQUARE, ROUND BAR, HEXAGON, FLAT	COLD UPSET TEST	IS 11169 (PART-1)
78	MECHANICAL-MECHANICAL PROPERTIES OF METALS	STEEL ROUND CORNER SQUARE, ROUND BAR, HEXAGON, FLAT	ELONGATION	ASTM E8/8M
79	MECHANICAL-MECHANICAL PROPERTIES OF METALS	STEEL ROUND CORNER SQUARE, ROUND BAR, HEXAGON, FLAT	ELONGATION	IS 1608 (Part-1)
80	MECHANICAL-MECHANICAL PROPERTIES OF METALS	STEEL ROUND CORNER SQUARE, ROUND BAR, HEXAGON, FLAT	HARDENABILITY TEST (1 mm to 50 mm)	ASTM A255
81	MECHANICAL-MECHANICAL PROPERTIES OF METALS	STEEL ROUND CORNER SQUARE, ROUND BAR, HEXAGON, FLAT	HARDENABILITY TEST (1 mm to 50 mm)	IS 3848
82	MECHANICAL-MECHANICAL PROPERTIES OF METALS	STEEL ROUND CORNER SQUARE, ROUND BAR, HEXAGON, FLAT	REDUCTION IN AREA	ASTM E8/8M
83	MECHANICAL-MECHANICAL PROPERTIES OF METALS	STEEL ROUND CORNER SQUARE, ROUND BAR, HEXAGON, FLAT	REDUCTION IN AREA	IS 1608 (Part-1)
84	MECHANICAL-MECHANICAL PROPERTIES OF METALS	STEEL ROUND CORNER SQUARE, ROUND BAR, HEXAGON, FLAT	ROCKWELL HARDNESS TEST	IS 1586 (Part-1)
85	MECHANICAL-MECHANICAL PROPERTIES OF METALS	STEEL ROUND CORNER SQUARE, ROUND BAR, HEXAGON, FLAT	Tensile strength	ASTM E8/8M
86	MECHANICAL-MECHANICAL PROPERTIES OF METALS	STEEL ROUND CORNER SQUARE, ROUND BAR, HEXAGON, FLAT	Yield Stress	ASTM E8/8M
87	MECHANICAL-METALLOGRAPHY TEST	ROUND CORNER SQUARE, ROUND BAR, HEXAGON, FLAT	Average grain size (By Comparison method)	ASTM E 112
88	MECHANICAL-METALLOGRAPHY TEST	ROUND CORNER SQUARE, ROUND BAR, HEXAGON, FLAT	Average grain size (By Comparison method)	IS 4748
89	MECHANICAL-METALLOGRAPHY TEST	ROUND CORNER SQUARE, ROUND BAR, HEXAGON, FLAT	Blue Fracture	ISO 3763
90	MECHANICAL-METALLOGRAPHY TEST	ROUND CORNER SQUARE, ROUND BAR, HEXAGON, FLAT	Carbide Banding	SEP 1520

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91	MECHANICAL-METALLOGRAPHY TEST	ROUND CORNER SQUARE, ROUND BAR, HEXAGON, FLAT	Degree of Banding or Orientation of Microstructure	ASTM E 1268
92	MECHANICAL-METALLOGRAPHY TEST	ROUND CORNER SQUARE, ROUND BAR, HEXAGON, FLAT	Depth of Decarburized layer in steel : Microscopic Method	IS 6396
93	MECHANICAL-METALLOGRAPHY TEST	ROUND CORNER SQUARE, ROUND BAR, HEXAGON, FLAT	Inclusion Rating of Steel	ASTM E 45, Method A
94	MECHANICAL-METALLOGRAPHY TEST	ROUND CORNER SQUARE, ROUND BAR, HEXAGON, FLAT	Inclusion Rating of Steel	IS 4163
95	MECHANICAL-METALLOGRAPHY TEST	ROUND CORNER SQUARE, ROUND BAR, HEXAGON, FLAT	Macro Etch test with rating (Magnification Up to 10X)	ASTM E 381
96	MECHANICAL-METALLOGRAPHY TEST	ROUND CORNER SQUARE, ROUND BAR, HEXAGON, FLAT	Macrostreak flaw for Steel	IS 4075
97	MECHANICAL-METALLOGRAPHY TEST	ROUND CORNER SQUARE, ROUND BAR, HEXAGON, FLAT	Spherodisation	ASTM F 2282
98	NON-DESTRUCTIVE-METALS & ALLOYS	ROUND CORNER SQUARE, ROUND BAR.	Ultrasonic Testing	ASTM A388/388M (Back Echo Method only)
99	NON-DESTRUCTIVE-METALS & ALLOYS	STEEL (CIRCULAR MAGNETIZATION ONLY) ROUND CORNER SQUARE, ROUND BAR.	MAGNETIC PARTICLE TESTING(Fluorescent)	ASTM A 275/275M (Circular Magnetization only)
100	NON-DESTRUCTIVE-METALS & ALLOYS	STEEL (CIRCULAR MAGNETIZATION ONLY) ROUND CORNER SQUARE, ROUND BAR.	MAGNETIC PARTICLE TESTING(Fluorescent)	ASTM E709 (Circular Magnetization only)

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LOCATION 2 - PLOT NO. 42, PHASE IV, ADITYAPUR INDUSTRIAL AREA, GAMHARIA, DIST. SARAIKELA – KHARSAWAN, ADITYAPUR, SARAIKELA KHARSAWAN, JHARKHAND, INDIA Permanent Facility				
1	MECHANICAL-MECHANICAL PROPERTIES OF METALS	STEEL ROUND CORNER SQUARE, ROUND BAR, HEXAGON, FLAT	Rockwell Hardness Test	IS 1586 (Part-1)
2	MECHANICAL-MECHANICAL PROPERTIES OF METALS	STEEL ROUND CORNER SQUARE, ROUND BAR, HEXAGON, FLAT	Hardenability (1 mm to 50 mm)	IS 3848
3	MECHANICAL-MECHANICAL PROPERTIES OF METALS	STEEL ROUND CORNER SQUARE, ROUND BAR, HEXAGON, FLAT	BRINELL HARDNESS TEST(10 /3000)	ASTM E10
4	MECHANICAL-MECHANICAL PROPERTIES OF METALS	STEEL ROUND CORNER SQUARE, ROUND BAR, HEXAGON, FLAT	BRINELL HARDNESS TEST(10 /3000)	IS 1500(Part 1)
5	MECHANICAL-MECHANICAL PROPERTIES OF METALS	STEEL ROUND CORNER SQUARE, ROUND BAR, HEXAGON, FLAT	Hardenability (1 mm to 50 mm)	ASTM A 255
6	MECHANICAL-METALLOGRAPHY TEST	ROUND CORNER SQUARE, ROUND BAR, HEXAGON, FLAT	Average grain size (By Comparison method)	ASTM E 112
7	MECHANICAL-METALLOGRAPHY TEST	ROUND CORNER SQUARE, ROUND BAR, HEXAGON, FLAT	Average grain size (By Comparison method)	IS 4748
8	MECHANICAL-METALLOGRAPHY TEST	ROUND CORNER SQUARE, ROUND BAR, HEXAGON, FLAT	Degree of banding or orientation of Microstructure	ASTM E1268
9	MECHANICAL-METALLOGRAPHY TEST	ROUND CORNER SQUARE, ROUND BAR, HEXAGON, FLAT	Depth of Decarburized layer in steel: Microscopic Method	IS 6396
10	MECHANICAL-METALLOGRAPHY TEST	ROUND CORNER SQUARE, ROUND BAR, HEXAGON, FLAT	Inclusion rating of steel	ASTM E 45
11	MECHANICAL-METALLOGRAPHY TEST	ROUND CORNER SQUARE, ROUND BAR, HEXAGON, FLAT	Inclusion rating of steel	IS 4163
12	MECHANICAL-METALLOGRAPHY TEST	ROUND CORNER SQUARE, ROUND BAR, HEXAGON, FLAT	Macro Etch Test with rating	ASTM E 381
13	MECHANICAL-METALLOGRAPHY TEST	ROUND CORNER SQUARE, ROUND BAR, HEXAGON, FLAT	Macro Streak flaw for Steel	IS 4075
14	NON-DESTRUCTIVE-METALS & ALLOYS	STEEL (CIRCULAR MAGNETIZATION ONLY) ROUND CORNER SQUARE, ROUND BAR	Magnetic Particle testing(Fluorescent)	AST A275/275M(Circular Magnetization only)
15	NON-DESTRUCTIVE-METALS & ALLOYS	STEEL (CIRCULAR MAGNETIZATION ONLY) ROUND CORNER SQUARE, ROUND BAR	Magnetic Particle testing(Fluorescent)	ASTM E 709(Circular Magnetization only)
16	NON-DESTRUCTIVE-METALS & ALLOYS	STEEL (CIRCULAR MAGNETIZATION ONLY) ROUND CORNER SQUARE, ROUND BAR	Ultrasonic Testing(Contact Method)	ASTM A388/388M(Back Echo Method only)