SCOPE OF ACCREDITATION

Laboratory Name : DUTECH INDIA LABORATORIES, S. NO. 37/2, SIHAGAD ROAD, WADGAON, KHURD, PUNE, MAHARASHTRA, INDIA

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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
Permanent Facility				
1	CHEMICAL- CORROSION TESTS	Coated Products / Panels / Raw Materials	Salt spray test	ASTM B 117
2	CHEMICAL- METALS & ALLOYS	Alloy steel	Chromium	ASTM E 415
3	CHEMICAL- METALS & ALLOYS	Alloy steel	Copper	ASTM E 415
4	CHEMICAL- METALS & ALLOYS	Alloy steel	Manganese	ASTM E 415
5	CHEMICAL- METALS & ALLOYS	Alloy steel	Molybdenum	ASTM E 415
6	CHEMICAL- METALS & ALLOYS	Alloy steel	Nickel	ASTM E 415
7	CHEMICAL- METALS & ALLOYS	Alloy steel	Phosphorous	ASTM E 415
8	CHEMICAL- METALS & ALLOYS	Alloy steel	Silicon	ASTM E 415
9	CHEMICAL- METALS & ALLOYS	Alloy steel	Sulphur	ASTM E 415
10	CHEMICAL- METALS & ALLOYS	Alloy steel	Tungsten	ASTM E 415
11	CHEMICAL- METALS & ALLOYS	Alloy steel	Vanadium	ASTME 415
12	CHEMICAL- METALS & ALLOYS	Alloy stell	Carbon	ASTM E 415
13	CHEMICAL- METALS & ALLOYS	Aluminium & alloy	Copper	ASTM E 1251
14	CHEMICAL- METALS & ALLOYS	Aluminium & alloy	Iron	ASTM E 1251
15	CHEMICAL- METALS & ALLOYS	Aluminium & alloy	Lead	ASTME 1251
16	CHEMICAL- METALS & ALLOYS	Aluminium & alloy	Magnesium	ASTM E 1251
17	CHEMICAL- METALS & ALLOYS	Aluminium & alloy	Manganese	ASTM E 1251
18	CHEMICAL- METALS & ALLOYS	Aluminium & alloy	Nickel	ASTM E 1251

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19	CHEMICAL- METALS & ALLOYS	Aluminium & alloy	Silicon	ASTM E 1251
20	CHEMICAL- METALS & ALLOYS	Aluminium & alloy	Titanium	ASTM E 1251
21	CHEMICAL- METALS & ALLOYS	Copper & alloy	Phosphorus	BS EN 15079
22	CHEMICAL- METALS & ALLOYS	Copper and allloy	Iron	BS EN 15079
23	CHEMICAL- METALS & ALLOYS	Copper and alloy	Lead	BS EN 15079
24	CHEMICAL- METALS & ALLOYS	Copper and alloy	Tin	BS EN 15079
25	CHEMICAL- METALS & ALLOYS	Copper and alloy	Zinc	BS EN 15079
26	CHEMICAL- METALS & ALLOYS	Copper and alloys	Nickel	BS EN 15079
27	CHEMICAL- METALS & ALLOYS	Stainless steel	Copper	ASTM E 1086
28	CHEMICAL- METALS & ALLOYS	Stainless steel	Carbon	ASTM E 1086
29	CHEMICAL- METALS & ALLOYS	Stainless steel	Chromium	ASTM E 1086
30	CHEMICAL- METALS & ALLOYS	Stainless steel	Manganese	ASTM E 1086
31	CHEMICAL- METALS & ALLOYS	Stainless steel	Molybdenum	ASTM E 1086
32	CHEMICAL- METALS & ALLOYS	Stainless steel	Nickel	ASTM E 1086
33	CHEMICAL- METALS & ALLOYS	Stainless steel	Phosphorous	ASTM E 1086
34	CHEMICAL- METALS & ALLOYS	Stainless steel	Silicon	ASTM E 1086
35	CHEMICAL- METALS & ALLOYS	Stainless steel	Sulphur	ASTM E 1086
36	CHEMICAL- PAINTS & SURFACE COATING	Paints and enamels	Accelerated storage stability.	IS 168
37	CHEMICAL- PAINTS & SURFACE COATING	Paints and enamels	Drying time	IS 101 P3 /S1

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38	CHEMICAL- PAINTS & SURFACE COATING	Paints and enamels	Fineness of grinding	IS 101 P3/S5
39	CHEMICAL- PAINTS & SURFACE COATING	Paints and enamels	Finish	IS 101P3/S4
40	CHEMICAL- PAINTS & SURFACE COATING	Paints and enamels	Flash point	IS 101 P-1/S6
41	CHEMICAL- PAINTS & SURFACE COATING	Paints and enamels	Gloss @ 60 deg.	IS 101 P4/S4
42	CHEMICAL- PAINTS & SURFACE COATING	Paints and enamels	Mass per 10 liter in Kg	IS 101 P1/S7
43	CHEMICAL- PAINTS & SURFACE COATING	Paints and enamels	Pensile Hardness	IS 101 P5/S1
44	CHEMICAL- PAINTS & SURFACE COATING	Paints and enamels	Pressure test	IS 101 P5/S1
45	CHEMICAL- PAINTS & SURFACE COATING	Paints and enamels	Resistance to corrosion under condensation.	IS 101 P6/S1
46	CHEMICAL- PAINTS & SURFACE COATING	Paints and enamels	Resistance to scratch hardness	IS 101 P5 /S2
47	CHEMICAL- PAINTS & SURFACE COATING	Paints and lubricants	Resistance to lubricating oil and hydrocarbons.	IS 101 P7/S2
48	CHEMICAL- PAINTS & SURFACE COATING	Paints and varnishes	Consistency	IS 101, P1/S5
49	CHEMICAL- PLASTIC & RESINS	Plastic & plastic product	Coating thickness	ASTM B 499
50	CHEMICAL- PLASTIC & RESINS	Plastic & Plastic products	Ash content & Filler content	ISO 3451
51	CHEMICAL- PLASTIC & RESINS	Plastic & plastic products	Ash or Filler content	ASTM D 5630
52	CHEMICAL- PLASTIC & RESINS	Plastic & Plastic Products	Density of Plastics	ASTM D 792
53	CHEMICAL- PLASTIC & RESINS	Plastic & Plastic Products	Density of plastics	ISO 1183
54	CHEMICAL- PLASTIC & RESINS	Plastic & Plastic Products	Flammability	FMVSS 302
55	CHEMICAL- PLASTIC & RESINS	Plastic & Plastic Products	Flammability	IS 15061
56	CHEMICAL- PLASTIC & RESINS	Plastic & Plastic Products	Heat deflection temperature	ASTM D 648

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57	CHEMICAL- PLASTIC & RESINS	Plastic & Plastic Products	Heat deflection temperature	ISO 75
58	CHEMICAL- PLASTIC & RESINS	Plastic & Plastic Products	Melting Points	IS 13360 P 6/S10
59	CHEMICAL- PLASTIC & RESINS	Plastic & Plastic Products	Vicat softening temperature	ASTM D1525
60	CHEMICAL- PLASTIC & RESINS	Plastic & Plastic Products	Vicat softening temperature	ISO 306
61	CHEMICAL- PLASTIC & RESINS	Plastic & Plastic Products	Water absorption	ASTM D 570
62	CHEMICAL- PLASTIC & RESINS	Plastic and Polymers	Ph value of aqueous extract	IS 1060
63	CHEMICAL- PLASTIC & RESINS	Plastic and polymers	Water soluble matter by mass	JSS -9330-03
64	CHEMICAL- PLASTIC & RESINS	Plastics and Polymers	Identification of polymers by FTIR	ASTM E 1252
65	CHEMICAL- PLASTIC & RESINS	Plastics and polymers	Solubility in toluene / Acetone	JSS-9330-03
66	CHEMICAL- RUBBER & RUBBER PRODUCTS	Rubber & Rubber product	Change in mass (ASTM Fuel-A,B,C,D, SAE 10 W 30 oil, SAE 15 W 30 oil, Transformer oil, ASTM Oil No. 1 or IRM 901, ASTM oil No. 2 or IRM 903, Distilled water, Ethylene Glycol water mixture, Diesel Fuel, Unleaded petrol)	ASTM D 471
67	CHEMICAL- RUBBER & RUBBER PRODUCTS	Rubber & Rubber product	Density & specific gravity	ASTM D 297
68	CHEMICAL- RUBBER & RUBBER PRODUCTS	Rubber & Rubber Products	Ash content	ASTM D 297
69	CHEMICAL- RUBBER & RUBBER PRODUCTS	Rubber & Rubber Products	Change in volume (ASTM Fuel-A,B,C,D, SAE 10 W 30 oil, SAE 15 W 30 oil, Transformer oil, ASTM Oil No. 1 or IRM 901, ASTM oil No. 2 or IRM 903, Distilled water, Ethylene Glycol water mixture, Diesel Fuel, Unleaded petrol)	ASTM D 471
70	CHEMICAL- RUBBER & RUBBER PRODUCTS	Rubber & Rubber Products	Identification of rubber by Pyrolysis method (Neoprene-CR, Natural-NR, Nitrile-NBR, Isoprene-IR)	ASTM D 297

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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
71	CHEMICAL- RUBBER & RUBBER PRODUCTS	Rubber & Rubber products	Identification of rubber by Pyrolysis method (Neoprene-CR, Natural-NR, Nitrile-NBR, Isoprene-IR)	IS 3400 (Part 22)
72	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-ferrous materials and products	Rockwell Hardness B	IS 1586
73	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-ferrous materials and products	Rockwell Hardness C	IS 1586
74	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic , Plastic Products, Cellular Plastics, Foams (Polyurethane)	Tensile strength	ASTM D 638
75	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic and polymers	Dart impact strength	ASTM D 1709
76	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastics, Plastics products, Cellular plastics, Foams (Polyurethane)	Charpy impact strength	IS 13360 (Part 5/ Sec 5)
77	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastics, Plastics products, Cellular plastics, Foams (Polyurethane)	Charpy impact strength	IS 13360 (Part 5/ Sec5)
78	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastics, Plastics products, Cellular plastics, Foams (Polyurethane)	Charpy impact strength	ISO 179
79	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastics, Plastics products, Cellular Plastics, Foams (Polyurethane)	Elonagation	ISO 527
80	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastics, Plastics Products, Cellular Plastics, Foams (Polyurethane)	Elongation	ASTM D 638
81	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastics, Plastics products, Cellular plastics, Foams (Polyurethane)	Elongation	IS 13360 (Part 5/ Sec 3)
82	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastics, Plastics products, Cellular plastics, Foams (Polyurethane)	Elongation at break	ASTM D 638
83	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastics, Plastics products, Cellular plastics, Foams (Polyurethane)	Elongation at break	IS 13360 (Part 5/ Sec 3)
84	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastics, Plastics products, Cellular plastics, Foams (Polyurethane)	Elongation at break	ISO 527
85	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastics, Plastics products, Cellular plastics, Foams (Polyurethane)	Flexural modulus	IS 13360 (Part 5/ Sec 7)
86	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastics, Plastics products, Cellular plastics, Foams (Polyurethane)	Flexural Modulus	IS 13360(Part 5/Sec 7)
87	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastics, Plastics products, Cellular plastics, Foams (Polyurethane)	Flexural modulus	ISO 178

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88	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastics, Plastics products, Cellular plastics, Foams (Polyurethane)	Flexural strength	IS 13360 (Part 5/ Sec 7)
89	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastics, Plastics products, Cellular plastics, Foams (Polyurethane)	Flexural strength	IS 13360(Part 5/Sec 7)
90	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastics, Plastics products, Cellular plastics, Foams (Polyurethane)	Flexural strength	ISO 178
91	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastics, Plastics products, Cellular plastics, Foams (Polyurethane)	Izod Impact strength	ASTM D 256
92	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastics, Plastics products, Cellular plastics, Foams (Polyurethane)	Izod impact strength	IS 13360 (Part 5/ Sec 4)
93	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastics, Plastics products, Cellular plastics, Foams (Polyurethane)	Izod impact strength	IS 13360(Part 5/Sec 4)
94	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastics, Plastics products, Cellular plastics, Foams (Polyurethane)	Izod impact strength	ISO 180
95	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastics, Plastics products, Cellular plastics, Foams (Polyurethane)	Melt flow index	ASTM D1238
96	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastics, Plastics products, Cellular plastics, Foams (Polyurethane)	Melt flow index	ASTM D1238
97	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastics, Plastics Products, Cellular Plastics, Foams (Polyurethane)	Shore-D Hardness	ASTM D 2240
98	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastics, Plastics products, Cellular plastics, Foams (Polyurethane)	Tensile strength	ASTM D 638
99	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastics, Plastics products, Cellular plastics, Foams (Polyurethane)	Tensile strength	IS 13360 (Part 5/ Sec 3)
100	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastics, Plastics products, Cellular plastics, Foams (Polyurethane)	Tensile strength	IS 13360 (Part 5/Sec 3)
101	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastics, Plastics products, Cellular plastics, Foams (Polyurethane)	Tensile strength	ISO 527
102	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastics, Plastics products, Cellular plastics, Foams (Polyurethane), thermoplastic	Tearing strength of elastomer	ASTM D 624
103	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastics, Plastics Products, Cellular Plastics, Foams(Polyurethane)	Shore-D Hardness	ASTM D 2240
104	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastics.Plastics products, Cellular plastics, Foams(Polyurethane)	Flexural strength	ISO 178

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105	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Synthetic and Natural Rubber products	Change in elonagtion Due to effect of liquid (ASTM Fuel-A,B,C,D, SAE 10 W 30 oil, SAE 15 W 30 Oil, Transformer Oil, ASTM Oil No. 1 or IRM 901, ASTM Oil No. 2 Or IRM 903, Distilled water, Ethylene glycol water mixture, Diesel Fuel, Unleaded petrol)	ASTM D 471
106	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Synthetic and Natural Rubber products	Change in elongation due to effect of heat	ASTM D 573
107	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Synthetic and Natural Rubber products	Change in hardness due to effect of heat	ASTM D 573
108	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Synthetic and Natural Rubber products	Change in hardness Due to effect of liquid (ASTM Fuel-A,B,C,D, SAE 10 W 30 oil, SAE 15 W 30 Oil, Transformer Oil, ASTM Oil No. 1 or IRM 901, ASTM Oil No. 2 Or IRM 903, Distilled water, Ethylene glycol water mixture, Diesel Fuel, Unleaded petrol)	ASTM D 471
109	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Synthetic and Natural Rubber products	Change in tensile due to effect of heat	ASTM D 573
110	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Synthetic and Natural Rubber products	Change in TS Due to effect of liquid (ASTM Fuel-A,B,C,D, SAE 10 W 30 oil, SAE 15 W 30 Oil, Transformer Oil, ASTM Oil No. 1 or IRM 901, ASTM Oil No. 2 Or IRM 903, Distilled water, Ethylene glycol water mixture, Diesel Fuel, Unleaded petrol)	ASTM D 471
111	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Synthetic and Natural Rubber products	compression set at constant starin	ASTM D 395
112	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Synthetic and Natural Rubber products	Elongation at break	IS 3400 (Part 1)
113	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Synthetic and Natural Rubber products	Elongtion at break	ASTM D 412
114	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Synthetic and Natural Rubber products	Shore-A hardness	ASTM D 2240
115	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Synthetic and Natural Rubber products	Tearing strength	ASTM D 624

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116	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Synthetic and Natural Rubber products	Tensile strength	ASTM D 412
117	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Synthetic and Natural Rubber products	Tensile strength	IS 3400 (Part 1)
118	MECHANICAL- TEXTILE MATERIALS	Industrial fabric	Tearing strength	IS 6489
119	MECHANICAL- TEXTILE MATERIALS	Industrial textile	Breaking load	IS 1969
120	MECHANICAL- TEXTILE MATERIALS	Industrial textile	GSM of fabric	IS 1964