



**INTERNATIONAL QUALITY AND
ACCREDITATION SERVICES PRIVATE LIMITED**
(Formerly International Quality And Accreditation Services LLP)

Scope of Accreditation for Testing

As per ISO/IEC 17025:2017

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CAB Name : Elmech Labs Pvt. Ltd.
Address : Suite No.-B05, A-37, Sector-63, Noida 201301, U. P.

Certificate No: T-0002

Issue date : 17.11.2023
Validity : 16.11.2024
Amendment date : NA

Chemical Testing

Sr. No.	Parameter/ Materials / Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications / Equipment/Techni ques used	Facility
1.	Low alloy Steel (Low, Medium & High Carbon Steel)	C (%)	0.0070 to 1.3110	ASTM E415- 2017	Permanent Facility
		Si (%)	0.0039 to 0.9470	ASTM E415- 2017	
		P (%)	0.0045 to 0.1210	ASTM E415- 2017	
		S (%)	0.0049 to 0.0580	ASTM E415- 2017	
		Cu (%)	0.0089 to 0.3020	ASTM E415- 2017	
		Mn (%)	0.1623 to 1.5460	ASTM E415- 2017	
		Ni (%)	0.0161 to 0.8080	ASTM E415- 2017	
		Cr (%)	0.0055 to 1.2480	ASTM E415- 2017	
		Mo (%)	0.0005 to 0.1400	ASTM E415- 2017	
		Al (%)	0.0151 to 0.3300	ASTM E415- 2017	
		Co (%)	0.0053 to 0.0415	ASTM E415- 2017	
		V (%)	0.0002 to 0.4110	ASTM E415- 2017	

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Chemical Testing

Sr. No.	Parameter/ Materials / Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications / Equipment/Techniques used	Facility
		Sn (%)	0.0006 to 0.0067	ASTM E415-2017	
		Ti (%)	0.0004 to 0.0390	ASTM E415-2017	
		Nb (%)	0.0040 to 0.0487	ASTM E415-2017	
2.	Stainless Steel	C	0.0103 to 0.279	ASTM E1086-2014	Permanent Facility
		Si	0.21 to 1.05	ASTM E1086-2014	
		P	0.0053 to 0.037	ASTM E1086-2014	
		S	0.0051 to 0.029	ASTM E1086-2014	
		Cu	0.0091 to 1.94	ASTM E1086-2014	
		Mn	0.596 to 1.71	ASTM E1086-2014	
		Ni	0.246 to 12.90	ASTM E1086-2014	
		Cr	11.93 to 25.49	ASTM E1086-2014	
		Mo	0.0138 to 3.49	ASTM E1086-2014	

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		N	0.006 to 0.232	IS 228 (P-23)- 2003	
3.	Cast Iron	C	1.916 to 3.24	ASTM E1999 - 2018	Permanent Facility
		Si	1.300 to 2.12	ASTM E1999 - 2018	
		P	0.008 to 0.0453	ASTM E1999 - 2018	
		S	0.006 to 0.0724	ASTM E1999 - 2018	
		Cu	0.0117 to 0.396	ASTM E1999 - 2018	
		Mn	0.317 to 1.798	ASTM E1999 - 2018	
		Ni	0.025 to 0.205	ASTM E1999 - 2018	
		Cr	0.0794 to 0.236	ASTM E1999 - 2018	
		Sn	0.0062 to 0.009	ASTM E1999 - 2018	
		Ti	0.0070 to 0.016	ASTM E1999 - 2018	
		V	0.072 to 0.179	ASTM E1999 - 2018	

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Chemical Testing

Sr. No.	Parameter/ Materials / Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications / Equipment/Techni ques used	Facility
		Mo	0.0342 to 0.453	ASTM E1999 - 2018	
4.	Tool Steel	C	1.02 to 1.36	JIS G1253-2002	Permanent Facility
		Si	0.18 to 0.38	JIS G1253-2002	
		P	0.022 to 0.03	JIS G1253-2002	
		S	0.029 to 0.03	JIS G1253-2002	
		Mn	0.26 to 0.3	JIS G1253-2002	
		Cr	3.91 to 4.22	JIS G1253-2002	
		Mo	3.54 to 9.41	JIS G1253-2002	
		Al	0.005 to 0.006	JIS G1253-2002	
		Co	7.95 to 10.3	JIS G1253-2002	
		V	1.14 to 3.15	JIS G1253-2002	
		W	1.8 to 8.87	JIS G1253-2002	

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Mechanical Testing

Sr. No.	Parameter/ Materials / Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications / Equipment/Techniques used	Facility
5.	Metal & metal products	Tensile Load	5kN to 1800kN	IS 1608 (Part 1): 2022	Permanent Facility
6.		Tensile Load	5kN to 1800kN	ISO 6892-1: 2019	Permanent Facility
7.		Tensile Load	5kN to 1800kN	AS 1391: 2007 (RA- 2017)	Permanent Facility
8.		Tensile Load	4kN to 1000kN	ASTM A370: 2021	Permanent Facility
9.		Tensile Load	4kN to 1000kN	ASTM E8: 2021	Permanent Facility
10.	Welded Products (Metal & metal products)	Tensile Load	4kN to 1000kN	ASME SEC IX: 2023	Permanent Facility
11.		Tensile Load	5kN to 1800kN	ISO 15614-1: 2017+A1: 2019	Permanent Facility
12.		Tensile Load	5kN to 1800kN	IS 7307-1: 1974 (RA- 2019)	Permanent Facility
13.		Tensile Load	5kN to 1800kN	ISO 5178: 2019	Permanent Facility
14.		Tensile Load	5kN to 1800kN	ISO 4136: 2022	Permanent Facility
15.		Tensile Load	5kN to 1800kN	IS 3600 (Part 3): 2018	Permanent Facility

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Mechanical Testing

16.		Tensile Load	4kN to 1000kN	ASME SEC IIC: 2023	Permanent Facility
17.	Metal & metal products	Tensile strength	50 N/mm ² to 3000 N/mm ²	IS 1608 (Part 1): 2022	Permanent Facility
18.		Tensile strength	50 N/mm ² to 3000 N/mm ²	ISO 6892-1: 2019	Permanent Facility
19.		Tensile strength	50 N/mm ²	AS 1391: 2007 (RA-2017)	Permanent Facility
20.		Tensile strength	50 N/mm ² to 3000 N/mm ²	ASTM E8: 2021	Permanent Facility
21.		Tensile strength	50 N/mm ² to 3000 N/mm ²	ASTM A370: 2021	Permanent Facility
22.		Welded Products (Metal & metal products)	Tensile strength	50 N/mm ² to 3000 N/mm ²	ASME SEC IX: 2023
23.	Tensile strength		50 N/mm ² to 3000 N/mm ²	ISO 15614-1: 2017+A1: 2019	Permanent Facility
24.	Tensile strength		50 N/mm ² to 3000 N/mm ²	API 1104: 2021	Permanent Facility
25.	Tensile strength		50 N/mm ² to 3000 N/mm ²	ASTM A 770: 1986 (RA-2018)	Permanent Facility
26.	Tensile strength		50 N/mm ² to 3000 N/mm ²	AWS D1.1: 2020	Permanent Facility
27.	Tensile strength		50 N/mm ² to 3000 N/mm ²	ISO 4136: 2022	Permanent Facility
28.	Tensile strength		50 N/mm ² to 3000 N/mm ²	IS 3600 (Part 3): 2018	Permanent Facility
29.	Tensile strength		50 N/mm ² to 3000 N/mm ²	IS 7307-1: 1974 (RA-2019)	Permanent Facility
30.	Tensile strength		50 N/mm ² to 3000 N/mm ²	ISO 5178: 2019	Permanent Facility

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31.		Tensile strength	50 N/mm ² to 3000 N/mm ²	ASME SEC IIC: 2023	Permanent Facility
32.	Metal & metal products	Yield stress	50 N/mm ² to 3000 N/mm ²	IS 1608 (Part 1): 2022	Permanent Facility
33.		Yield stress	50 N/mm ² to 3000 N/mm ²	ISO 6892-1: 2019	Permanent Facility
34.		Yield stress	50 N/mm ² to 3000 N/mm ²	AS 1391: 2007 (RA-2017)	Permanent Facility
35.		Yield stress	50 N/mm ² to 3000 N/mm ²	ASTM A370: 2021	Permanent Facility
36.		Yield stress	50 N/mm ² to 3000 N/mm ²	ASTM E8: 2021	Permanent Facility
37.		Metal & metal products	0.2% Proof Stress	50 N/mm ² to 3000 N/mm ²	IS 1608 (Part 1): 2022
38.	0.2% Proof Stress		50 N/mm ² to 3000 N/mm ²	ISO 6892-1: 2019	Permanent Facility
39.	0.2% Proof Stress		50 N/mm ² to 3000 N/mm ²	AS 1391: 2007 (RA-2017)	Permanent Facility
40.	0.2% Proof Stress		50 N/mm ² to 3000 N/mm ²	ASTM E8: 2021	Permanent Facility
41.	0.2% Proof Stress		50 N/mm ² to 3000 N/mm ²	ASTM A370: 2021	Permanent Facility
42.	Welded Products (Metal & metal products)	0.2% Proof Stress	50 N/mm ² to 3000 N/mm ²	ASME SEC IIC: 2023	Permanent Facility
43.		Yield stress	50 N/mm ² to 3000 N/mm ²	ASME SEC IIC: 2023	Permanent Facility

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44.	0.2% Proof Stress	50 N/mm ² to 3000 N/mm ²	IS 7307-1: 1974 (RA-2019)	Permanent Facility
45.	Yield stress	50 N/mm ² to 3000 N/mm ²	IS 7307-1: 1974 (RA-2019)	Permanent Facility
46.	0.2% Proof Stress	50 N/mm ² to 3000 N/mm ²	ISO 5178: 2019	Permanent Facility
47.	Yield stress	50 N/mm ² to 3000 N/mm ²	ISO 5178: 2019	Permanent Facility
48.	Yield stress	50 N/mm ² to 3000 N/mm ²	ASTM A 770: 1986 (RA-2018)	Permanent Facility
49.	Elongation	1% to 80%	ASME SEC IIC-2021	Permanent Facility
50.	Elongation	1% to 80%	ISO 5178: 2019	Permanent Facility
51.	Elongation	1% to 80%	IS 7307-1: 1974 (RA-2019)	Permanent Facility
52.	Elongation	1% to 80%	ASTM A 770: 1986 (RA-2018)	Permanent Facility
53.	Area Reduction	1% to 80%	ASTM A 770: 1986 (RA-2018)	Permanent Facility
54.	Area Reduction	1% to 80%	IS 7307-1: 1974 (RA-2019)	Permanent Facility
55.	Area Reduction	1% to 80%	ASME SEC IIC-2021	Permanent Facility
56.	Area Reduction	1% to 80%	ISO 5178: 2019	Permanent Facility

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57.	Metal & metal products	Elongation	1% to 80%	IS 1608 (Part 1): 2022	Permanent Facility	
58.		Elongation	1% to 80%	ISO 6892-1: 2019	Permanent Facility	
59.		Elongation	1% to 80%	AS 1391: 2007 (RA-2017)	Permanent Facility	
60.		Elongation	1% to 80%	ASTM A370: 2021	Permanent Facility	
61.		Elongation	1% to 80%	ASTM E8: 2021	Permanent Facility	
62.		Area Reduction	1% to 80%	IS 1608 (Part 1): 2022	Permanent Facility	
63.		Area Reduction	1% to 80%	ISO 6892-1: 2019	Permanent Facility	
64.		Area Reduction	1% to 80%	AS 1391: 2007 (RA-2017)	Permanent Facility	
65.		Area Reduction	1% to 80%	ASTM E8: 2021	Permanent Facility	
66.		Area Reduction	1% to 80%	ASTM A370: 2021	Permanent Facility	
67.		Shear strength	50 N/mm ² to 3000 N/mm ²	IS 5242: 1979 (RA-2022)	Permanent Facility	
68.		Metal & metal products	Compressive Load	4kN to 1000kN	ASTM E9-89a (RA-2000)	Permanent Facility
69.			Compressive Strength	50 N/mm ² to 3000 N/mm ²	ASTM E9-89a (RA-2000)	Permanent Facility
70.		Hardware (Metal & metal)	Proof Load Test of Bolt	5kN to 1800kN	ISO 898 (Part-1): 2013	Permanent Facility

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71.	products)	Proof Load Test of Bolt	5kN to 1800kN	IS 1367 (Part-3): 2017	Permanent Facility
72.		Proof Load Test of Nut & Bolt	4kN to 1000kN	ASTM F606: 2016	Permanent Facility
73.	Hardware (Metal & metal products)	Proof Load Test of Nut	5kN to 1800kN	IS 1367 (Part-6): 2018	Permanent Facility
74.		Proof Load Test of Nut	5kN to 1800kN	ISO 898 (Part-2): 2022	Permanent Facility
75.	Metal & metal products	Rockwell Hardness, HRA	35.5 HRA to 83.8 HRA	IS 1586-1: 2018	Permanent Facility
76.		Rockwell Hardness, HRA	35.5 HRA to 83.8 HRA	ISO 6508-1: 2016	Permanent Facility
77.		Rockwell Hardness, HRB	29.3 HRBW to 97.1 HRBW	IS 1586-1: 2018	Permanent Facility
78.		Rockwell Hardness, HRB	29.3 HRBW to 97.1 HRBW	ISO 6508-1: 2016	Permanent Facility
79.		Rockwell Hardness, HRB	29.3 HRBW to 97.1 HRBW	ASTM A370: 2021	Permanent Facility
80.		Rockwell Hardness, HRB	29.3 HRBW to 97.1 HRBW	ASTM E18: 2015	Permanent Facility
81.		Rockwell Hardness, HRC	22.5 HRC to 61 HRC	IS 1586-1: 2018	Permanent Facility

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82.		Rockwell Hardness, HRC	22.5 HRC to 61 HRC	ISO 6508-1: 2016	Permanent Facility
83.		Rockwell Hardness, HRC	22.5 HRC to 61 HRC	ASTM A370: 2021	Permanent Facility
84.		Rockwell Hardness, HRC	22.5 HRC to 61 HRC	ASTM E18: 2015	Permanent Facility
85.	Metal & metal products	Brinell Hardness Test	124.4 HBW10/3000 to 640.9 HBW10/3000	IS 1500-1: 2019	Permanent Facility
86.		Brinell Hardness Test	124.4 HBW10/3000 to 640.9 HBW10/3000	ISO 9015-1: 2001	Permanent Facility
87.		Brinell Hardness Test	124.4 HBW10/3000 to 640.9 HBW10/3000	ISO 6506-1: 2014	Permanent Facility
88.		Brinell Hardness Test	124.4 HBW10/3000 to 640.9 HBW10/3000	ASTM A370: 2021	Permanent Facility

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			3000		
89.		Brinell Hardness Test	124.4 HBW10/ 3000 to 640.9 HBW10/ 3000	ASTM E10: 2018	Permanent Facility
90.		Brinell Hardness Test	127.8 HBW2.5/ 187.5 to 576.7 HBW2.5/ 187.5	IS 1500-1: 2019	Permanent Facility
91.		Brinell Hardness Test	127.8 HBW2.5/ 187.5 to 576.7 HBW2.5/ 187.5	ISO 9015-1: 2001	Permanent Facility
92.		Brinell Hardness Test	127.8 HBW2.5/ 187.5 to 576.7 HBW2.5/ 187.5	ISO 6506-1: 2014	Permanent Facility
93.		Brinell Hardness Test	127.8 HBW2.5/ 187.5 to 576.7 HBW2.5/ 187.5	ASTM A370: 2021	Permanent Facility
94.		Brinell Hardness Test	127.8 HBW2.5/ 187.5 to 576.7 HBW2.5/ 187.5	ASTM E10: 2018	Permanent Facility
95.	Metal & metal	Case Depth by	0.1 mm to 5.00	IS 6416: 2022	Permanent

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	products	Hardness method	mm		Facility
96.		Vickers Hardness, HV1	153.4 HV1 to 750 HV1	IS 1501-1: 2020	Permanent Facility
97.		Vickers Hardness, HV1	153.4 HV1 to 750 HV1	ISO 6507-1: 2018	Permanent Facility
98.		Vickers Hardness, HV1	153.4 HV1 to 750 HV1	ASTM A370: 2021	Permanent Facility
99.		Vickers Hardness, HV1	153.4 HV1 to 750 HV1	ASTM E92: 2017	Permanent Facility
100.		Micro Vickers Hardness, HV1	153.4 HV1 to 750 HV1	ASTM E384: 2017	Permanent Facility
101.		Vickers Hardness, HV0.5	181 HV0.5 to 716.9 HV0.5	IS 1501-1: 2020	Permanent Facility
102.		Vickers Hardness, HV0.5	181 HV0.5 to 716.9 HV0.5	ISO 6507-1: 2018	Permanent Facility
103.		Vickers Hardness, HV0.5	181 HV0.5 to 716.9 HV0.5	ASTM A370: 2021	Permanent Facility
104.		Vickers Hardness, HV0.5	181 HV0.5 to 716.9 HV0.5	ASTM E92: 2017	Permanent Facility
105.		Micro Vickers Hardness, HV0.5	181 HV0.5 to 716.9 HV0.5	ASTM E384: 2017	Permanent Facility
106.		Vickers Hardness, HV0.2	128.5 HV0.2 to 714.5 HV0.2	IS 1501-1: 2020	Permanent Facility

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107.	Vickers Hardness, HV0.2	128.5 HV0.2 to 714.5 HV0.2	ISO 6507-1: 2018	Permanent Facility
108.	Vickers Hardness, HV0.2	128.5 HV0.2 to 714.5 HV0.2	ASTM A370: 2021	Permanent Facility
109.	Vickers Hardness, HV0.2	128.5 HV0.2 to 714.5 HV0.2	ASTM E92: 2017	Permanent Facility
110.	Micro Vickers Hardness, HV0.2	128.5 HV0.2 to 714.5 HV0.2	ASTM E384: 2017	Permanent Facility
111.	Vickers Hardness, HV10	118.6 HV10 to 653.1 HV10	IS 1501-1: 2020	Permanent Facility
112.	Vickers Hardness, HV10	118.6 HV10 to 653.1 HV10	ISO 6507-1: 2018	Permanent Facility
113.	Vickers Hardness, HV10	118.6 HV10 to 653.1 HV10	ASTM A370: 2021	Permanent Facility
114.	Vickers Hardness, HV10	118.6 HV10 to 653.1 HV10	ASTM E92: 2017	Permanent Facility
115.	Vickers Hardness, HV50	454 HV50 to 703 HV50	IS 1501-1: 2020	Permanent Facility
116.	Vickers Hardness, HV50	454 HV50 to 703 HV50	ISO 6507-1: 2018	Permanent Facility
117.	Vickers Hardness, HV50	454 HV50 to 703 HV50	ASTM A370: 2021	Permanent Facility

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118.		Vickers Hardness, HV50	454 HV50 to 703 HV50	ASTM E92: 2017	Permanent Facility
119.	Welded Products (Metal & metal products)	Vickers Hardness, HV10	118.6 HV10 to 653.1 HV10	IS 7307-1: 1974 (RA- 2019)	Permanent Facility
120.		Vickers Hardness, HV10	118.6 HV10 to 653.1 HV10	ISO 15614-1: 2017+A1: 2019	Permanent Facility
121.		Vickers Hardness, HV10	118.6 HV10 to 653.1 HV10	ISO 9015-1-2011	Permanent Facility
122.		Vickers Hardness, HV10	118.6 HV10 to 653.1 HV10	API 1104: 2021	Permanent Facility
123.		Nick Break Test	-	API 1104: 2021	Permanent Facility
124.	Metal & metal products	Izod Impact Test	2 J to 168 J	IS 1598: 1977 (RA-2020)	Permanent Facility
125.		Izod Impact Test	2 J to 168 J	ASTM E23: 2018	Permanent Facility
126.	Metal & metal products	Charpy Impact Test (Up to -196°C)	2 J to 240 J	IS 1757-1: 2020	Permanent Facility
127.		Charpy Impact Test (Up to -196°C)	1 J to 240 J	ISO 148-1: 2016	Permanent Facility
128.		Charpy Impact Test	1 J to 240 J	ASTM E23: 2018	Permanent Facility

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		(Up to -196°C)			
129.		Charpy Impact Test (Up to -196°C)	1 J to 240 J	ASTM A370: 2021	Permanent Facility
130.		Lateral Expansion	0.01 mm to 5 mm	ASTM A370: 2021	Permanent Facility
131.		Shear Fracture %	10 % to 100%	ASTM A370: 2021	Permanent Facility
132.	Pipe and Tube (Metal & metal products)	Flattening Test of Pipe	-	IS 2328: 2018	Permanent Facility
133.		Flattening Test of Pipe	-	ASTM A370: 2021	Permanent Facility
134.		Flattening Test of Pipe	-	ISO 8492: 2013	Permanent Facility
135.		Drift Expansion Test Pipe	-	IS 2335: 2005 (RA-2022)	Permanent Facility
136.		Flaring Test of Pipe	-	ASTM A370: 2021	Permanent Facility
137.	Metal & metal products	Bend Test	Mandrel Diameter 5 mm, 10 mm, 12 mm, 16 mm, 20 mm, 24 mm, 30 mm, 32 mm, 40 mm, 45 mm, 50 mm, 60 mm,	IS 1599: 2023	Permanent Facility
138.		Bend Test		ISO 7438: 2020	Permanent Facility
139.		Bend Test		ASTM A370: 2021	Permanent Facility
140.	TMT BAR	Re-bend test		IS 1786: 2008 (RA-2018)	Permanent Facility

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141.	(Metal & metal products)	Mass per meter (Kg)	0.080 to 30 Kg	IS 1786: 2008 (RA-2018)	Permanent Facility
142.	Metal & metal products	Mass per meter (Kg)	0.080 to 30 Kg	IS 1161: 2014 (RA-2019)	Permanent Facility
143.	Welded Products (Metal & metal products)	Root & Face Bend Test	Mandrel Diameter 5 mm, 10 mm, 12 mm, 16 mm, 20 mm, 24 mm, 30 mm, 32 mm, 40 mm, 45 mm, 50 mm, 60 mm, 70 mm, 80 mm, 90 mm, 100 mm, 110 mm, 120 mm, 150 mm, 175 mm	ASME SEC IX: 2023	Permanent Facility
144.		Side Bend Test		ASME SEC IX: 2023	Permanent Facility
145.		Root & Face Bend Test		API 1104: 2021	Permanent Facility
146.		Side Bend Test		API 1104: 2021	Permanent Facility
147.		Root & Face Bend Test		AWS D1.1: 2020	Permanent Facility
148.		Side Bend Test		AWS D1.1: 2020	Permanent Facility
149.		Root & Face Bend Test		IS 7307-1: 1974 (RA-2019)	Permanent Facility
150.		Side Bend Test		IS 7307-1: 1974 (RA-2019)	Permanent Facility
151.		Root & Face Bend Test		IS 7310-1: 2019	Permanent Facility
152.		Side Bend Test		IS 7310-1: 2019	Permanent Facility

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153.		Root & Face Bend Test		ISO 5173: 2023	Permanent Facility
154.		Side Bend Test		ISO 5173: 2023	Permanent Facility
155.	Welded Products (Metal & metal products)	Root & Face Bend Test		ISO 15614-1: 2017+A1: 2019	Permanent Facility
156.		Side Bend Test		ISO 15614-1: 2017+A1: 2019	Permanent Facility
157.		Root & Face Bend Test		EN910: 1996	Permanent Facility
158.		Side Bend Test		EN910: 1996	Permanent Facility
159.	Welded Products (Metal & metal products)	Fracture Test	4 kN to 1000 kN	ASME SEC IX: 2023	Permanent Facility
160.		Fracture Test	5 kN to 1800 kN	ISO 15614-1: 2017+A1: 2019	Permanent Facility
161.		Fracture Test	4 kN to 1000 kN	ASME SEC IIC: 2023	Permanent Facility
162.		Fracture Test	5 kN to 1800 kN	IS 7307-1: 1974 (RA-2019)	Permanent Facility
163.		Fracture Test	5 kN to 1800 kN	IS 7310-1: 2019	Permanent Facility
164.		Fracture Test	4 kN to 1000 kN	AWS D1.1: 2020	Permanent Facility
165.		Fracture Test	5 kN to 1800 kN	ISO 9017: 2017	Permanent Facility
166.		Mockup Test	4kN to 1000 kN	ASME SEC IX: 2023	Permanent

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Mechanical Testing

					Facility
167.	Metal & metal products	Dimension, mm	0.1 mm to 5000 mm	ELPL/SOP/WI-19: 2023	Permanent Facility
168.		Weight, gm	0.001 gm to 30000 gm	ELPL/SOP/WI-20:2023	Permanent Facility
169.	Metallography (Metal & metal products)	Macro Examination	-	ASME SEC IX: 2023	Permanent Facility
170.		Macro Examination	-	IS 7307-1: 1974 (RA-2019)	Permanent Facility
171.		Macro Examination	-	IS 7310-1: 2019	Permanent Facility
172.		Macro Examination	-	ISO 15614-1: 2017+A1: 2019	Permanent Facility
173.		Macro Examination	-	ISO 17639: 2022	Permanent Facility
174.		Macro Examination	-	API 1104: 2021	Permanent Facility
175.		Macro Examination	-	AWS D1.1: 2020	Permanent Facility
176.		Macro Examination	-	ASTM A 604: 2007	Permanent Facility
177.		Macro Examination	-	ASTM E381: 2022	Permanent Facility
178.		Macro	-	ASTM E340: 2015	Permanent Facility

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Mechanical Testing

	Examination			
179.	Microstructure Test	20X to 1000X	ASM Vol. 9	Permanent Facility
180.	Microstructure Test	20X to 1000X	IS 7754: 1975 (RA-2018)	Permanent Facility
181.	Inclusion Rating	0 to 3	ASTM E45: 2018	Permanent Facility
182.	Inclusion Rating	0 to 3	IS 4163: 2021	Permanent Facility
183.	Grain Size	1 to 10	ASTM E112: 2013 (RA-2021)	Permanent Facility
184.	Grain Size	1 to 10	IS 4748: 2021	Permanent Facility
185.	Ferrite Content by Chemical method	5% to 95%	IS 15839: 2021	Permanent Facility
186.	Ferrite Content by Chemical method	5% to 95%	ISO 13520: 2015	Permanent Facility
187.	Ferrite Content by Microscopic method	5% to 95%	ASTM E562: 2011	Permanent Facility
188.	Ferrite Content by Chemical method	5% to 95%	ASTM A800: 2020	Permanent Facility
189.	Decarburization Depth	10 µm to 1000 µm	IS 6396: 2000 (RA-2018)	Permanent Facility

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190.		Decarburization Depth	10 µm to 1000 µm	ASTM F2328: 2014	Permanent Facility
191.	Metallography Metallic Coating (Metal & metal products)	Coating Thickness by Microscopical Examination	10 µm to 1000 µm	ASTM B487: 2020	Permanent Facility
192.		Coating Thickness by Microscopical Examination	10 µm to 1000 µm	IS 3203: 1982 (RA-2021)	Permanent Facility
193.		Coating Thickness by Microscopical Examination	10 µm to 1000 µm	IS 5523: 1983 (RA-2021)	Permanent Facility
194.		DFT Thickness by Microscopical Examination	10 µm to 1000 µm	IS 101 (P-3/Sec-2): 1989 (RA-2019)	Permanent Facility
195.		Metallography Corrosion (Metal & metal products)	Intergranular Corrosion Test (Method-A)	0 mm/year to 2 mm/year	ASTM G28: 2002 (RA-2015)
196.	Intergranular Corrosion Test (Method-B)		0 mm/year to 2 mm/year	ASTM G28: 2002 (RA-2015)	Permanent Facility
197.	Pitting and Crevice Corrosion Resistance Test (Method-A)		-	ASTM G48: 2011 (RA-2015)	Permanent Facility
198.	Pitting and Crevice Corrosion		-	ASTM G48: 2011 (RA-2015)	Permanent Facility

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Mechanical Testing

		Resistance Test (Method-B)			
199.		Pitting and Crevice Corrosion Resistance Test (Method-C)	0 gm/m ² to 100 gm/m ²	ASTM G48: 2011 (RA- 2015)	Permanent Facility
200.	Metallography (Metal & metal products)	Detecting Detrimental Intermetallic Phase (Method-A)	-	ASTM A923: 2014	Permanent Facility
201.		Detecting Detrimental Intermetallic Phase (Method-B)	1 J to 240 J	ASTM A923: 2014	Permanent Facility
202.		Detecting Detrimental Intermetallic Phase (Method-C)	0 gm/m ² to 100 gm/m ²	ASTM A923: 2014	Permanent Facility
203.	Metallography Corrosion (Metal & metal products)	Intergranular Corrosion Test (Practice-A)	-	ASTM A262: 2015 (RA- 2021)	Permanent Facility
204.		Intergranular Corrosion Test (Practice-B)	0 gm/m ² to 100 gm/m ²	ASTM A262: 2015 (RA- 2021)	Permanent Facility
205.		Intergranular Corrosion Test	0 gm/m ² to 100 gm/m ²	ASTM A262: 2015 (RA- 2021)	Permanent

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		(Practice-C)			Facility
206.		Intergranular Corrosion Test (Practice-E)	-	ASTM A262: 2015 (RA-2021)	Permanent Facility
207.		Intergranular Corrosion Test	-	IS 10461-1: 1994 (RA-2021)	Permanent Facility
208.		Intergranular Corrosion Test	-	IS 10461-2: 1994 (RA-2021)	Permanent Facility
209.		Intergranular Corrosion Test	-	ISO 3651-1: 1998	Permanent Facility
210.		Intergranular Corrosion Test (Method-A)	-	ISO 3651-2: 1998	Permanent Facility
211.		Intergranular Corrosion Test (Method-B)	-	ISO 3651-2: 1998	Permanent Facility
212.		Intergranular Corrosion Test (Method-C)	-	ISO 3651-2: 1998	Permanent Facility
213.		Intergranular Corrosion Test	-	ISO 3651-3: 1998	Permanent Facility
214.	Corrosion Test (Metal & metal products)	Storage Stability Test	-	IRS M46: 2020	Permanent Facility
215.		Storage Stability	-	IRS M39: 2020	Permanent Facility

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	Test			
216.	Ammonia Atmosphere Treatment	-	IEC 62561-1: 2017	Permanent Facility
217.	Ammonia Atmosphere Treatment	-	IEC 62561-2: 2018	Permanent Facility
218.	Ammonia Atmosphere Treatment	-	ISO 6957: 1988	Permanent Facility
219.	Salt Mist Test	-	IEC 62561-1: 2017	Permanent Facility
220.	Salt Mist Test	-	IEC 62561-2: 2018	Permanent Facility
221.	Salt Mist Test	-	IEC 60068-2-52: 2017	Permanent Facility

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