



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :** CG METAL LAB LLP, 51, SHIVAM ESTATE, PHASE-II, GANDHINAGAR, GUJARAT, INDIA  
**Accreditation Standard** ISO/IEC 17025:2017  
**Certificate Number** TC-5205 **Page No** 1 of 11  
**Validity** 27/02/2026 to 26/02/2030 **Last Amended on** 31/03/2026

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 Testing				
1	CHEMICAL- CORROSION TESTS	Coated Product / Panels	Salt Spray Test	ASTM B117
2	CHEMICAL- CORROSION TESTS	Coated Product / Panels	Salt Spray Test	IS 9844
3	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Hot Dip Aluminium-Zinc Alloy Metallic Coated Steel Strip and Sheet	Coating Adhesion Test	IS 15961 (Clause 10)
4	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Hot Dip Aluminium-Zinc Alloy Metallic Coated Steel Strip and Sheet	Mass of Metallic Coating	IS 15961 (Clause 9.1, Annex A)
5	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Cobalt	JIS G 1253
6	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Aluminium	ASTM E415
7	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Aluminium	IS 8811
8	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Aluminium	JIS G 1253
9	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Arsenic	ASTM E415
10	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Arsenic	IS 8811
11	CHEMICAL- METALS & ALLOYS	Carbon Steel (Low Carbon, Medium Carbon & High Carbon Steel)	Arsenic	JIS G 1253
12	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Boron	ASTM E415
13	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Boron	IS 8811
14	CHEMICAL- METALS & ALLOYS	Carbon Steel (Low Carbon, Medium Carbon & High Carbon Steel)	Boron	JIS G 1253
15	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Carbon	ASTM E415
16	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Carbon	IS 8811
17	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Carbon	JIS G 1253
18	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Chromium	ASTM E415
19	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Chromium	IS 8811

**This is annexure to 'Certificate of Accreditation' and does not require any signature.**



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20	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Chromium	JIS G 1253
21	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Cobalt	ASTM E415
22	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Cobalt	IS 8811
23	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Copper	ASTM E415
24	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Copper	IS 8811
25	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Copper	JIS G 1253
26	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Manganese	ASTM E415
27	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Manganese	IS 8811
28	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Manganese	JIS G 1253
29	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Molybdenum	ASTM E415
30	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Molybdenum	IS 8811
31	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Molybdenum	JIS G 1253
32	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Nickel	ASTM E415
33	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Nickel	IS 8811
34	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Nickel	JIS G 1253
35	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Niobium	ASTM E415
36	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Niobium	IS 8811
37	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Niobium	JIS G 1253
38	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Nitrogen	ASTM E415
39	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Nitrogen	JIS G 1253



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40	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Phosphorus	ASTM E415
41	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Phosphorus	IS 8811
42	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Phosphorus	JIS G 1253
43	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Silicon	ASTM E415
44	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Silicon	IS 8811
45	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Silicon	JIS G 1253
46	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Sulphur	ASTM E415
47	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Sulphur	IS 8811
48	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Sulphur	JIS G 1253
49	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Tin	ASTM E415
50	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Tin	IS 8811
51	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Tin	JIS G 1253
52	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Titanium	ASTM E415
53	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Titanium	IS 8811
54	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Titanium	JIS G 1253
55	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Vanadium	ASTM E415
56	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Vanadium	IS 8811
57	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Vanadium	JIS G 1253
58	CHEMICAL- METALS & ALLOYS	High Alloy Steel (Stainless Steel)	Nitrogen	JIS G 1253
59	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	ASTM E1086



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60	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	IS 9879
61	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	JIS G 1253
62	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	ASTM E1086
63	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	IS 9879
64	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	JIS G 1253
65	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	ASTM E1086
66	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	IS 9879
67	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	JIS G 1253
68	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	ASTM E1086
69	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	IS 9879
70	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	JIS G 1253
71	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	ASTM E1086
72	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	IS 9879
73	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	JIS G 1253
74	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	ASTM E1086
75	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	IS 9879
76	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	JIS G 1253
77	CHEMICAL- METALS & ALLOYS	Stainless Steel	Niobium	JIS G 1253
78	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	ASTM E1086
79	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	IS 9879



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80	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	JIS G 1253
81	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	ASTM E1086
82	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	IS 9879
83	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	JIS G 1253
84	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	ASTM E1086
85	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	IS 9879
86	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	JIS G 1253
87	CHEMICAL- METALS & ALLOYS	Stainless Steel	Titanium	JIS G 1253
88	CHEMICAL- METALS & ALLOYS	Stainless Steel	Tungsten	JIS G 1253
89	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous Metals and it's alloys	0.2 % Proof Stress	ASTM E8/8M
90	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous Metals and it's alloys	0.2% Proof Stress	IS 1608 (Part-1)
91	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous Metals and it's alloys	0.2% Proof Stress	ASTM A/SA 370
92	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous Metals and it's alloys	0.2% Proof Stress	ISO 6892-1
93	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous Metals and it's alloys	0.2% Proof Stress	JIS Z 2241
94	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous Metals and it's alloys	0.5% Proof Stress	ASTM A/SA 370
95	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous Metals and it's alloys	0.5% Proof Stress	ASTM E8/8M
96	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous Metals and it's alloys	0.5% Proof Stress	IS 1608 (Part-1)



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97	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous Metals and it's alloys	0.5% Proof Stress	ISO 6892-1
98	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous Metals and it's alloys	0.5% Proof Stress	JIS Z 2241
99	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous Metals and it's alloys	1.0% Proof Stress	ASTM A/SA 370
100	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous Metals and it's alloys	1.0% Proof Stress	ASTM E8/8M
101	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous Metals and it's alloys	1.0% Proof Stress	IS 1608 (Part-1)
102	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous Metals and it's alloys	1.0% Proof Stress	ISO 6892-1
103	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous Metals and it's alloys	1.0% Proof Stress	JIS Z 2241
104	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous metals and it's alloys	Bend Test (Mandral Size in mm: 1-2-3-4-8-10-12-16-20-24-32-40-44-70-100)	ASME SA IX (Part QW, Article-I)
105	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous metals and it's alloys	Bend Test (Mandral Size in mm: 1-2-3-4-8-10-12-16-20-24-32-40-44-70-100)	ASTM E 190
106	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous metals and it's alloys	Bend Test (Mandral Size in mm: 1-2-3-4-8-10-12-16-20-24-32-40-44-70-100)	ASTM E 290
107	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous metals and it's alloys	Bend Test (Mandral Size in mm: 1-2-3-4-8-10-12-16-20-24-32-40-44-70-100)	BS EN ISO 5173
108	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous metals and it's alloys	Bend Test (Mandral Size in mm: 1-2-3-4-8-10-12-16-20-24-32-40-44-70-100)	BS EN ISO 7438
109	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous metals and it's alloys	Bend Test (Mandral Size in mm: 1-2-3-4-8-10-12-16-20-24-32-40-44-70-100)	IS 1599



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110	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous metals and it's alloys	Elongation	ASTM E8/8M
111	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous metals and it's alloys	Elongation	IS 1608 (Part-1)
112	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous metals and it's alloys	Elongation	ISO 6892-1
113	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous metals and it's alloys	Elongation	JIS Z 2241
114	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous metals and it's alloys	Reduction in Area	ASTM E8/8M
115	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous metals and it's alloys	Reduction in Area	IS 1608 (Part-1)
116	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous metals and it's alloys	Reduction in Area	ISO 6892-1
117	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous metals and it's alloys	Reduction in Area	JIS Z 2241
118	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous metals and it's alloys	Rockwell Hardness	ASTM E 18
119	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous metals and it's alloys	Rockwell Hardness	ASTM E 18
120	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous metals and it's alloys	Rockwell Hardness	BS EN ISO 6508-1
121	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous metals and it's alloys	Rockwell Hardness	BS EN ISO 6508-1
122	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous metals and it's alloys	Rockwell Hardness	IS 1586 (Part-1)
123	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous metals and it's alloys	Rockwell Hardness	IS 1586 (Part-1)



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124	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous metals and it's alloys	Tensile Strength	API 1104 22th Edition
125	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous metals and it's alloys	Tensile Strength	ASME SA IX (Part QW, Article-I)
126	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous metals and it's alloys	Tensile Strength	ASTM E8/8M
127	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous metals and it's alloys	Tensile Strength	IS 1608 (Part-1)
128	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous metals and it's alloys	Tensile Strength	ISO 6892-1
129	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous metals and it's alloys	Vickers Hardness HV10	ASTM E92
130	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous metals and it's alloys	Vickers Hardness HV10	IS 1501 (Part-1)
131	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous metals and it's alloys	Vickers Hardness HV10	ISO 6507-1
132	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous Metals and it's alloys	Yield Strength	ASTM A/SA 370
133	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous Metals and it's alloys	Yield Strength	ASTM E8/8M
134	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous Metals and it's alloys	Yield Strength	IS 1608 (Part-1)
135	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous Metals and it's alloys	Yield Strength	ISO 6892-1
136	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous / Non Ferrous Metals and it's alloys	Yield Strength	JIS Z 2241
137	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Material	Elongation	ISO 4136



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138	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Material	Tensile Strength	ISO 4136
139	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Material (Carbon Steel, Mild Steel, Stainless Steel Nuts)	Proof Load	ASTM A/SA 194
140	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Material (Carbon Steel, Mild Steel, Stainless Steel Nuts)	Proof Load	IS 1367 (Part-6)
141	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Material (Carbon Steel, Mild Steel, Stainless Steel Nuts)	Proof Load	ISO 898-2
142	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Material (Carbon Steel, Mild Steel, Stainless Steel)	Charpy V-notch Impact Test (Testing Temperature: Room Temperature to -196°C)	ASTM E23
143	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Material (Carbon Steel, Mild Steel, Stainless Steel)	Charpy V-notch Impact Test (Testing Temperature: Room Temperature to -196°C)	ISO 148-1
144	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Product	Bend Test (Mandrel Size in mm: 1-2-3-4-8-10-12-16-20-24-32-40-44-70-100)	ASTM A/SA 370
145	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Product	Elongation	ASTM A/SA 370
146	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Product	Reduction in Area	ASTM A/SA 370
147	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Product	Tensile Strength	ASTM A/SA 370
148	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Product (Carbon Steel, Mild Steel, Stainless Steel Nuts)	Proof Load	ASTM A/SA 370
149	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Product (Tubes and Pipes)	Flattening	ASTM A/SA 370
150	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Product (Tubes and Pipes) (Mandrel Size 100 & 250 mm with 60 Degree Angle)	Flange Test	ASTM A/SA 370
151	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Product (Tubes and Pipes) (Mandrel Size 100 & 250 mm with 60 Degree Angle)	Flaring / Drift Expansion	ASTM A/SA 370



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152	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Tubes and Pipes	Flattening	IS 2328
153	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Tubes and Pipes	Flattening	ISO 8492
154	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Tubes and Pipes (Tubes and Pipes) (Mandrel Size 100 & 250 mm with 60 Degree Angle)	Flanging Test	ISO 8494
155	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Tubes and Pipes (Tubes and Pipes) (Mandrel Size 100 & 250 mm with 60 Degree Angle)	Flaring / Drift Expansion	ASTM A/SA 450
156	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Tubes and Pipes (Tubes and Pipes) (Mandrel Size 100 & 250 mm with 60 Degree Angle)	Flaring / Drift Expansion	IS 2335
157	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Tubes and Pipes (Tubes and Pipes) (Mandrel Size 100 & 250 mm with 60 Degree Angle)	Flaring / Drift Expansion	ISO 8493
158	MECHANICAL-METALLOGRAPHY TEST	Metallic Material	Grain Size Measurement (By Comparison Method, Grain No. 3 to 10)	ASTM E112
159	MECHANICAL-METALLOGRAPHY TEST	Metallic Material	Grain Size Measurement (By Comparison Method, Grain No. 3 to 10)	ISO 643
160	MECHANICAL-METALLOGRAPHY TEST	Metallic Material	Intergranular Corrosion Test - Method A	ASTM G28
161	MECHANICAL-METALLOGRAPHY TEST	Metallic Material	Macro Structure Examination	ASME SA IX (Part QW, Article-I)
162	MECHANICAL-METALLOGRAPHY TEST	Metallic Material	Macro Structure Examination	ASTM E340
163	MECHANICAL-METALLOGRAPHY TEST	Metallic Material	Macro Structure Examination	ASTM E381
164	MECHANICAL-METALLOGRAPHY TEST	Metallic Material	Macro Structure Examination	BS EN ISO 17639
165	MECHANICAL-METALLOGRAPHY TEST	Metallic Material	Micro Structure Examination	BS EN ISO 17639
166	MECHANICAL-METALLOGRAPHY TEST	Metallic Material	Microstructures Examination	ASM Vol. 9
167	MECHANICAL-METALLOGRAPHY TEST	Metallic Material	Pitting and Crevice Corrosion Test - Method A	ASTM G48
168	MECHANICAL-METALLOGRAPHY TEST	Metallic Material	Volume Fraction by Manual Point Count	ASTM E562



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :** CG METAL LAB LLP, 51, SHIVAM ESTATE, PHASE-II, GANDHINAGAR, GUJARAT, INDIA  
**Accreditation Standard** ISO/IEC 17025:2017  
**Certificate Number** TC-5205 **Page No** 11 of 11  
**Validity** 27/02/2026 to 26/02/2030 **Last Amended on** 31/03/2026

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
169	MECHANICAL-METALLOGRAPHY TEST	Metallic Material (Duplex Stainless Steel Tubes, Pipes, Bars, Plate)	Determination of Intermetallic phase (Method A)	ASTM A923
170	MECHANICAL-METALLOGRAPHY TEST	Metallic Material (Duplex Stainless Steel Tubes, Pipes, Bars, Plate)	Determination of Intermetallic phase (Method B)	ASTM A923
171	MECHANICAL-METALLOGRAPHY TEST	Metallic Material (Duplex Stainless Steel Tubes, Pipes, Bars, Plate)	Determination of Intermetallic phase (Method C)	ASTM A923
172	MECHANICAL-METALLOGRAPHY TEST	Metallic Material (Stainless Steel Tubes, Pipes, Sheet, Plates, Casting piece, Bars)	Intergranular Corrosion Test (Method A)	ISO 3651-2
173	MECHANICAL-METALLOGRAPHY TEST	Metallic Material (Stainless Steel Tubes, Pipes, Sheet, Plates, Casting piece, Bars)	Intergranular Corrosion Test (Method B)	ISO 3651-2
174	MECHANICAL-METALLOGRAPHY TEST	Metallic Material (Stainless Steel Tubes, Pipes, Sheet, Plates, Casting piece, Bars)	Intergranular Corrosion Test (Method C)	ISO 3651-2
175	MECHANICAL-METALLOGRAPHY TEST	Metallic Material (Stainless Steel Tubes, Pipes, Sheet, Plates, Casting piece, Bars)	Intergranular Corrosion Test (Practice A)	ASTM E 262
176	MECHANICAL-METALLOGRAPHY TEST	Metallic Material (Stainless Steel Tubes, Pipes, Sheet, Plates, Casting piece, Bars)	Intergranular Corrosion Test (Practice B)	ASTM E 262
177	MECHANICAL-METALLOGRAPHY TEST	Metallic Material (Stainless Steel Tubes, Pipes, Sheet, Plates, Casting piece, Bars)	Intergranular Corrosion Test (Practice C)	ASTM E 262
178	MECHANICAL-METALLOGRAPHY TEST	Metallic Material (Stainless Steel Tubes, Pipes, Sheet, Plates, Casting piece, Bars)	Intergranular Corrosion Test (Practice E)	ASTM E 262