

Identification Number of Accreditation

NACI/Lab/145

Initial Accreditation Date and

Place: 2022.04.27-Tehran

Renewal Date:

Expiry Date : 2025.04.26



Laboratory Accreditation Certificate

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Accreditation Scope of Razi Metallurgical Research Center.

No.	Product Name	Product Oriented ¹	Test Oriented ²	Test Title	Applicable Range	Reference
1	Carbon and Low Alloy Steel		✓	Analysis by Spark Atomic Emission Spectrometry (Quantometry)	Al: 0.006-0.093% As: 0.003-0.07% B: 0.0004-0.007% C: 0.02-0.8% Cr: 0.007-5.9% Co: 0.006-0.2% Cu: 0.01-0.5% Mn: 0.25-1.8% Mo: 0.01-1.3% Ni: 0.01-4.4% Nb: 0.003-0.08% P: 0.006-0.08% Si: 0.12-1.54% S: 0.001-0.055% Sn: 0.005-0.05% Ti: 0.001-0.07% V: 0.003-0.3%	ASTM E415
2	Austenitic Stainless Steel		✓	Analysis by Spark Atomic Emission Spectrometry (Quantometry)	Cr: 17-23% Ni: 7.5-13% Mo: 0.03-3.0% Mn: 0.01-2.0% Si: 0.02-0.9% Cu: 0.01-0.3% C: 0.005-0.18% P: 0.003-0.06% S: 0.003-0.03%	ASTM E1086

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3	Aluminum and Aluminum Alloys		✓	Analysis by Spark Atomic Emission Spectrometry (Quantometry)	Be: 0.002-0.06% Bi: 0.03-0.25% Cr: 0.001-0.23% Cu: 0.01-5.5% Fe: 0.2-0.5% Pb: 0.04-0.6% Li: 0.001-0.01% Mg: 0.03-5.4% Mn: 0.006-1.2% Ni: 0.005-2.6% Si: 0.07-16% Sn: 0.03-0.25% Ti: 0.003-0.12% V: 0.004-0.022% Zn: 0.002-5.7% Zr: 0.001-0.064%	ASTM E1251
4	Cast Iron		✓	Analysis by Spark Atomic Emission Spectrometry (Quantometry)	C: 2.4-3.8% Cr: 0.09-1.1% Cu: 0.015-0.25% Mn: 0.03-1% Mo: 0.08-0.8% Ni: 0.15-1.8% P: 0.005-0.2% Si: 0.25-2.5% S: 0.06-0.08% Sn: 0.01-0.1% V: 0.008-0.22%	ASTM E1999

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4	Cast Iron			Analysis by Spark Atomic Emission Spectrometry (Quantometry)	Ti: 0.003-0.05%	ASTM E1999
5	Copper and copper alloys (Brass)		✓	Analysis by Spark Atomic Emission Spectrometry (Quantometry)	Al: 0.04-3.5% As: 0.004-0.12% Bi: 0.001-0.05% Co: 0.05-0.1% Fe: 0.005-1.2% Mn: 0.001-3.2% Ni: 0.004-0.4% P: 0.004-0.055% Pb: 0.01-4.0% Sb: 0.002-0.12% Si: 0.002-1.6% Sn: 0.01-1.1% Zn: 25-41%	BS EN 15079
6	Copper and copper alloys (Bronze)		✓	Analysis by Spark Atomic Emission Spectrometry (Quantometry)	Ag: 0.001-0.06% Al: 0.001-11.5% As: 0.002-0.3% Bi: 0.001-0.08% Co: 0.01-2% Cr: 0.001-0.04% Fe: 0.001-4.2% Mg: 0.004-0.015%	BS EN 15079

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6	Copper and copper alloys (Bronze)			Analysis by Spark Atomic Emission Spectrometry (Quantometry)	Mn: 0.0005-2.0% Ni: 0.01-10.5% P: 0.003-0.12% Pb: 0.008-12% S: 0.001-0.12% Sb: 0.002-0.65% Si: 0.001-0.18% Sn: 0.008-12% Zn: 0.01-7.5%	BS EN 15079
7	Nickel Alloys		✓	Analysis by Spark Atomic Emission Spectrometry (Quantometry)	Al: 0.005-1.5% B: 0.001-0.04% C: 0.01-0.15% Cr: 15.0-20% Cu: 0.03-2.0% Co: 0.01-13% Fe: 0.05-31% Mn: 0.04-1.0% Mo: 0.2-18.0% Nb: 0.1-1.0% P: 0.01-0.05% Si: 0.03-1.2% S: 0.001-0.01% Ti: 0.02-3.5% W: 0.01-5.0% V: 0.01-0.6%	ASTM E3047
8	Titanium and Titanium Alloys		✓	Analysis by Spark Atomic Emission	Al: 0.3-7.0% Cu: 0.02-0.03%	ASTM E2994

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				Spectrometry (Quantometry)	Fe: 0.043-0.25% Mn: 0.005-0.08% Si: 0.018-0.1% V: 0.07-4.8%	
9	Metallic materials and welded samples		✓	Bending	Up to 20 t	ASTM E290 ASTM E190
10	Metallic materials		✓	Charpy Pendulum Impact (U&V Notch)	10-170J -100°C to ambient temperature	ASTM E23 ISO 148-1
				Brinell Hardness	145 - 470 HB 2.5/187 85 - 100 HB 2.5/62.5	INSO 7809-1 ISO 6506-1
				Vickers Hardness	80-675 HV30 80-640 HV10 100-305 HV5	INSO 7810-1 ISO 6507-1
				Micro Hardness	215-820 HV0.3 210-740 HV0.1 435-650 HV0.05 195-780 HV1 550-600 HV0.2 410-538 HV0.025	ASTM E384
				Corrosion in artificial atmospheres - Salt Spray tests in neutral environment	H×L×W=90×70×70 cm ³	INSO 10315 ASTM B117
10	Metallic materials		✓	Resistance to Hydrogen-Induced Cracking (HIC)	-----	NACE TM 0284

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				Resistance to Sulfide Stress Cracking and Stress Corrosion Cracking in H ₂ S Environments (SSCC)	-----	NACE TM 0177
				Rockwell hardness	20-70 HRC 30-100 HRB	INSO 7811-1 ISO 6508-1
				Preparation of Metallographic Specimens	Base: Fe- Cu- Al- Ti- Ni	ASTM E3
				Tensile at ambient temperature	Up to 85 ton	ASTM A370 (Clause 7-14) ISO 6892-1 INSO 10272-1
11	Metals and Alloys		✓	Macro etching	Base: Fe- Cu- Al- Ti- Ni	ASTM E340
				Micro etching	Base: Fe- Cu- Al- Ti- Ni	ASTM E407
12	Tool Steel Bars		✓	Macro etching	-----	ASTM A561
13	Steel Bars, Billets, Blooms, and Forgings		✓	Macro etching	-----	ASTM E381

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14	Metallographic Metallic Specimen		✓	Reflected-Light Photomicrography	Magnification: X25-50-100-200-500	ASTM E883
				Determining Average Grain Size	No: M8-M14 No: 1-14	ASTM E112
				Estimating the Largest Grain Observed in a Metallographic Section	No: (-4)-7	ASTM E930
				Characterizing Duplex Grain Sizes	----	ASTM E1181
15	Ferrous Alloys		✓	Preparing Sulfur Prints for Macro structural Evaluation	----	ASTM E1180
16	Metallographic Specimen		✓	Production and Evaluation of Field Metallographic Replicas	----	ASTM E1351
17	Steel Specimen		✓	Determining the Impurity	----	ASTM E45
				Estimating the Depth of Decarburization	10 μ to 1000 μ	ASTM E1077 Clause 7-3 & 7-4
18	Metallic Materials		✓	Determining Volume Fraction by Metallographic Method	---	ASTM E562

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19	Thin Wire & Bar Sieve		✓	Dimension Measurement by Image Analysis	10 μ to 1000 μ	RMRC WI-510-137
20	Oxide & Metal Coating		✓	Measurement of Coating Thickness by Microscopically Examination	10 μ -100 μ	ASTM B487
21	Cast Irons		✓	Evaluating the Microstructure and Graphite Classification by Visual Analysis	----	ASTM A247 INSO 1597-1
				Graphite Classification by Image Analysis		INSO 1597-2
22	Periodic Table Of Elements With Atomic Number 11 To 92 Except Inert Gases, In Solid Metals ,Ores And Related Materials		✓	Elemental Analysis by Wavelength Dispersive X-Ray Fluorescence Spectrometry (Semi Qualitative)	----	ASTM E1621
23	Polycrystalline and Amorphous Materials		✓	Characterization of Nanomaterial by X-ray Diffraction (XRD)	2 θ =4-70 Degree	BS EN 13925-1 INSO 21951-1

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24	Steel		✓	Rating and Classifying Inclusions Using the Scanning Electron Microscope	----	ASTM E2142
25	Metallic Coatings		✓	Measurement of Coating Thickness with a Scanning Electron Microscope	1 nm - 10 mm	ASTM B748 DIN EN ISO 9220
26	Metallic & Non Metallic materials (Powder , Balk or Disperse Solution)		✓	Preparing Microscopic Images using SEM and FESEM	SEM: Up to X100,000 FESEM: Up to X1,000,000	RMRC-WI-550-101-03
27	Metallic Surface for Gas Distribution System Components		✓	Energy Dispersive X-Ray Spectrometer (EDX) Analysis of Surface Condition	----	ASTM F1375
28	Coating films to metallic substrates		✓	Rating Adhesion by Tape Test	----	ASTM D3359 Method A&B
				Qualitative Adhesion of Metallic Coatings	Except methods Draw, Impact, Heat, Peel	ASTM B571

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29	Non-metallic Materials		✓	Operating Fluorescent Ultraviolet (UV) Lamp Apparatus for Exposure of Materials	UV 340A	ASTM G154
30	Rubber, vulcanized or thermoplastic		✓	Determination of density	----	ISO 2781 Method A
31	Rubber		✓	Identification by Infrared spectrometric methods	400-4000 cm ⁻¹	ISIRI 10034 BS ISO 4650 ASTM D3677
32	Rubbers, Plastics and Ebonite		✓	Plastics and Ebonite: Determination of Indentation Hardness by means of a Durometer (Shore hardness)	Up to 100 Shore A Up to 100 Shore D	INSO 1993 ISO 868
				Rubber Property – Durometer Hardness		ASTM D2240
33	Plastics		✓	Determining the Density of Non-cellular Plastics Immersion Method	---	INSO 7090-1 (Method A) ISO 1183-1 (Method A)

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33	Plastics		✓	Determining Density and Specific Gravity (Relative Density) of Plastics Displacement Method	--	ASTM D792
				Determination of Tensile Properties (excluding modulus determination)	Up to 20 kN	INSO 6621-1 ASTM D638
34	Moulding and Extrusion Plastics		✓	Determination of Tensile Properties (except module)	Up to 20 kN	INSO 6621-2 BS EN ISO 527-2
35	Plastic Films and Sheets		✓	Determination of Tensile Properties (except module)	Up to 20 kN	INSO 6621-3 DIN EN ISO 527-3
36	Isotropic and Orthotropic Fiber-Reinforced Plastic Composites		✓	Determination of Tensile Properties (except module)	Up to 20 kN	INSO 6621-4 BS EN ISO 527-4
37	Unidirectional Fiber-Reinforced Plastic Composites		✓	Determination of Tensile Properties (except module)	Up to 20 kN	INSO 6621-5 BS EN ISO 527-5
38	Thermoplastics Pipes		✓	Determination of Tensile Properties (except module)	Up to 20 kN	BS EN ISO 6259-1

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39	Thermoplastic Pipes - PVC-U, PVC-O, PVC-C, PVC-HI		✓	Determination of Tensile Properties (except module)	Up to 20 kN	BS EN ISO 6259-2
40	Polyolefin pipes		✓	Determination of Tensile Properties (except module)	Up to 20 kN	BS EN ISO 6259-3
41	Thin Plastic Sheeting		✓	Determination of Tensile Properties (except module)	Up to 20 kN	ASTM D882
42	Rubber, Vulcanized or Thermoplastic		✓	Determination of Tensile Stress-Strain Properties	Up to 20 kN	INSO 764 ISO 37
						ASTM D412 Method A
43	Plastics & Ebonite		✓	Determination of Temperature of Deflection under Load	-----	INSO 6845-2 ISO 75-2
44	Plastics, Thermoplastic Pipes & Fittings		✓	Determination of Vicat Softening Temperature	-----	INSO 6982 ISO 306 ISIRI 2414 ISO 2507-2 ASTM D1525

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45	Thermoplastics		✓	Determination of the Melt Mass-flow Rate (MFR) and Melt Volume-flow Rate (MVR) - Standard Method	M: 1.2 & 3.8 & 2.16 & 5 kg Temp: 190 & 230 & 300 °C	ISO 6980-1 ISO 1133-1
				Melt Flow Rates of Thermoplastics by Extrusion Plastometer		ASTM D1238
46	Plastics		✓	Determination of Izod Impact Strength	Up to 11 J 5J & 20J	ISIRI 6981 BS EN ISO 180 ASTM D256
				Determination of Charpy Impact Properties – Non-instrumented Impact Test		ISO 9277-1 BS EN ISO 179-1
				Determining the Charpy Impact Resistance of Notched Specimens of Plastics		ASTM D6110

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46	Plastics		✓	Determination of Deflection Temperature under Flexural Load in the Edgewise Position	----	ASTM D648
	Plastics		✓	Determination of Flexural Properties	----	INSO 357 BS EN ISO 178
				Determination of Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials		ASTM D790
				Differential Scanning Calorimetry (DSC) – Determination of oxidation induction time (isothermal OIT) and oxidation induction temperature (dynamic OIT)		ISO 11357-6

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46	Plastics		✓	Polyolefins - Determination of Oxidative-Induction Time by Differential Scanning Calorimetry		ASTM D3895
				Plastics Piping and Ducting Systems - Polyolefin Pipes and Fittings - Determination of Oxidation Induction Time		BS EN 728
				Barcol Hardness		ASTM D2583
47	Rubber & Plastics Hoses and Hose Assemblies			Hydrostatic Pressure	1000 bar	ISIRI 4566 ISO 1402
48	Polymers		✓	Determination of Transition Temperatures and Enthalpies of Fusion and Crystallization by Differential Scanning Calorimetry (DSC)	-----	ASTM D3418

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49	Rubber, Vulcanized or Thermoplastic		✓	Determination of Compression Set at Ambient/Elevated or Low Temperatures-Test Method	----	ISIRI 7605
					----	ASTM D395 Method B
				Determination of Compression Set at Ambient/Elevated Temperature	----	ISO 815-1
				Determination of Compression Set at Low Temperature		ISO 815-2
50	Vulcanized Rubber and Thermoplastic Elastomers		✓	Determination of Tear Strength	---	ASTM D624 (Die C)
51	Rubber, vulcanized or thermoplastic		✓	Determination of Abrasion Resistance using a Rotating Cylindrical Drum Device	----	ISO 4649 ASTM D5963
52	Thermoplastics Pipes		✓	Determination of Longitudinal Reversion	----	INSO 17614 BS EN ISO 2505
53	Rubbers		✓	Determination the Rebound Resilience of Rubber using the Schob Pendulum	----	DIN 53512

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54	Plastic Films		✓	Impact Resistance by the Free-falling Dart Method	---	ASTM D1709 Method A
55	All Materials (Except of Gas and Volatile matter)		✓	General Techniques for Obtaining Infrared Spectra for Qualitative Analysis	400-4000 cm ⁻¹	ASTM E1252
56	Ferrosilicon		✓	Determination of Aluminum Content-Flame Atomic Absorption Spectrometric Method	0.05 - 5%wt	ISIRI 7157
57	Zinc and Zinc Alloys		✓	Chemical Analysis	Al: 0.01-4.5% Cd: 0.002-0.5% Cu: 0.002-1.3% Fe: 0.01-0.1% Pb: 0.01-1.6% Mg: 0.01-0.1% Sn: 0.01-0.1%	ASTM E536 Clause 18 to 28
58	Copper Alloys		✓	Chemical Analysis	Pb: 0.01-15% Zn: 0.002-2%	ASTM E478 Clause 90 to 100 Clause 79 to 89
59	Iron Ores and Related Materials		✓	Determination of Iron by Dichromate Titration	35-95%	INSO 16467 Clause 2-1
60	Tin Metal		✓	Chemical Analysis	Cu: 0.002-10% Pb>0.01% Fe: 0.01-0.1%	JIS H 1141 Clause 5-1

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					Sb: 0.01-20%	
61	Lead Metal		✓	Chemical Analysis	Cu: 0.002-10% Fe: 0.01-0.1% Ag: 0.002-2% Zn: 0.002-0.5%	JIS H 1121 Clause 5-1
				Determination of Sb by Atomic Absorption Method	0.01-18%	RMRC-WI-520-148
62	Aluminum and Aluminum-based Alloys		✓	Chemical Analysis	Bi: 0.01-1.0% Cd: 0.02-0.5% Cr: 0.01-1.0% Cu: 0.002-1.0% Fe: 0.01-2.0% Pb: 0.01-2.0% Mg: 0.01-5.0% Mn: 0.002-2.0% Ni: 0.002-4.0% Zn: 0.002-10.0%	ISO 14611
63	Hard Coal and Coke		✓	Determination of Volatile Matter	-----	ISO 11098
				Determination of Ash in the Analysis Sample	-----	ASTM D3174
64	Carbon Steel, Low-Alloy Steel, Silicon Electrical Steel, Ingot Iron and Wrought Iron		✓	Chemical Analysis	Si= 0.01-3.5%wt P= 0.01-0.09%wt	ASTM E350 Clause 46 to 52 Clause 19 to 30

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65	Hot Rolled medium flange I-2 Beam	✓		Specification and Test Methods	----	INSO 1791
66	Hot Rolled Semi Light Weight, Medium Flange I-7 Beam	✓		Specification and Test Methods	----	INSO 16348
67	Hot Rolled I-Beams, Wide flange (IPB)	✓		Specification and Test Methods	----	ISIRI 14484
68	Hot Rolled Narrow taper flange I-1 beam	✓		Specification and Test Methods	----	INSO 3277
69	Hot-rolled Steel bars for Reinforcement of Concrete	✓		Specification and Test Methods	----	INSO 3132
70	Hot-reduced Carbon Steel Sheet of Commercial and Drawing Qualities	✓		Specification and Test Methods	----	INSO 3693
71	Hot-rolled Steel Sheet of Structural Quality	✓		Specification and Test Methods	----	INSO 3694
72	Steel Sheet Hot-rolled of Structural Quality with Improved Atmospheric Corrosion Resistance	✓		Specification and Test Methods	----	ISIRI 13747

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73	Hot-rolled Steel Sheet and Strip for Automobile Structure	✓		Specification and Test Methods	-----	ISIRI 5316
74	Continuous Hot-dip Zinc-coated Carbon Steel Sheet of Commercial, Lock forming and Drawing Qualities	✓		Specification and Test Methods	-----	ISIRI 7597
75	Hot-dip Zinc-coated Steel Sheet and Strip	✓		Specification and Test Methods	-----	JIS G3302
76	Prepainted Hot-dip Zinc-coated Steel Sheet and Strip	✓		Specification and Test Methods	-----	JIS G3312
77	Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-dip Process	✓		Specification and Test Methods	-----	ASTM A653
78	Continuous Hot-dip Zinc-coated and Zinc-Iron Alloy-Coated Carbon Steel Sheet of Structural Quality	✓		Specification and Test Methods	-----	INSO 7596

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No.	Product Name	Product Oriented ¹	Test Oriented ²	Test Title	Applicable Range	Reference
79	Cold-reduced Carbon Steel Sheet of Structural Quality	✓		Specification and Test Methods	-----	INSO 5722
80	Cold-reduced Carbon Steel Sheet of Commercial and Drawing Qualities	✓		Specification and Test Methods	-----	INSO 5723
81	Gas Cylinder - Transportable Refillable Welded Steel Cylinders for Liquefied Petroleum Gas (LPG)	✓		Specification and Test Methods	-----	ISIRI 473
82	Gas Cylinders - Refillable Seamless Steel Gas Cylinders And Tubes - Quenched And Tempered Steel Cylinders And Tubes With Tensile Strength Less Than 1 100 Mpa		✓	Proof pressure	Up to 300 bar	INSO 7909-1 Clause 11-2-1
83	Gas Cylinders- Refillable Seamless Steel Gas Cylinders And Tubes Quenched And Tempered Steel		✓	Proof pressure	Up to 300 bar	INSO 7909-2 Clause 11-2-1

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No.	Product Name	Product Oriented ¹	Test Oriented ²	Test Title	Applicable Range	Reference
	Cylinders And Tubes With Tensile Strength Greater Than Or Equal To 1100 Mpa					
84	Gas cylinders - Refillable seamless steel gas cylinders and tubes - Normalized steel cylinders and tubes		✓	Proof pressure	Up to 300 bar	INSO 7909-3 Clause 11-2-1
85	Hot Rolled Steel Channel with Taper flanges	✓		Specification and Test Methods	-----	INSO 4477-1
86	Hot Rolled Steel Channel with Parallel Flanges	✓		Specification and Test Methods	-----	INSO 4477-2
87	Cross-recessed Countersunk (flat) Head Tapping Screws	✓		Specification and Test Methods	-----	INSO 9074
88	Hexagon Head Bolts - Product Grades A & B	✓		Specification and Test Methods	M6 - M36	INSO 9054
89	fasteners made of carbon steel and alloy steel - Bolts,	✓		Specification and Test Methods	M6 - M36	INSO 2874-1 ISO 898-1

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No.	Product Name	Product Oriented ¹	Test Oriented ²	Test Title	Applicable Range	Reference
	screws and studs with specified property classes – Coarse thread and fine pitch thread					
90	Fasteners made of Carbon Steel and Alloy Steel – Nuts with Specified Property Classes – Coarse Thread and Fine Pitch Thread	✓		Specification and Test Methods	M6 - M36	INSO 2874-2 ISO 898-2
91	Externally and Internally Threaded Fasteners, Washers, Direct Tension Indicators and Rivets	✓		Specification and Test Methods	-----	ASTM F606
92	Carbon Steel, Alloy Steel and Stainless Steel Nuts for Bolts for High Pressure or High Temperature Service, or Both	✓		Specification and Test Methods	M6 - M36	ASTM A194


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No.	Product Name	Product Oriented ¹	Test Oriented ²	Test Title	Applicable Range	Reference
93	Alloy-Steel and Stainless Steel Bolting for High Temperature or High Pressure Service and other Special Purpose Applications	✓		Specification and Test Methods	M6 - M36	ASTM A193
94	Style 1 Stainless Steel Metric Nuts	✓		Specification and Test Methods	M6 - M36	ASTM F836
95	Bolts, Screws, Studs and Nuts - Product Grades A, B and C	✓		Dimensions Tolerances	----	ISIRI 9065-1
96	Washers for Bolts, Screws and Nuts - Product Grades A, C and F	✓		Dimensions Tolerances	----	ISIRI 9065-3
97	Prevailing Torque Type All-metal Hexagon Nuts with Flange, style 2 - Product grades A & B	✓		Specification and Test Methods	---	INSO 9071

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No.	Product Name	Product Oriented ¹	Test Oriented ²	Test Title	Applicable Range	Reference
98	Hexagon Thin Nuts Chamfered (Style 0) - Product Grades A & B	✓		Specification and Test Methods	M6 - M36	INSO 9739
99	Hexagon High Nuts (Style 2) with Metric Fine Pitch Thread - Product Grades A & B	✓		Specification and Test Methods	---	INSO 9750
100	Hexagon Thin Nuts Chamfered (Style 0) with Metric Fine Pitch Thread - Product Grades A & B	✓		Specification and Test Methods	M8 - M36	INSO 9751
101	Hexagon Head Bolts with Metric Fine Pitch Thread - Product Grades A & B	✓		Specification and Test Methods	M8 - M36	INSO 9761
102	Hexagon Regular Nuts (style 1) - Product Grades A & B	✓		Specification and Test Methods	M6 - M36	INSO 9736
103	Hexagon High Nuts (Style 2) - Product Grades A & B	✓		Specification and Test Methods	----	INSO 9737

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No.	Product Name	Product Oriented ¹	Test Oriented ²	Test Title	Applicable Range	Reference
104	Hexagon Regular Nuts (style 1) - Product Grade C	✓		Specification and Test Methods	M5 - M36	INSO 9738
105	ISO Miniature Screw Threads	✓		Specification and Test Methods	----	INSO 1802
106	Fasteners - Bolts, Screws, Studs and Nuts	✓		General Requirements	M6 - M36	ISIRI 11188
107	Fasteners - Hexagon Weld Nuts with Flange	✓		Specification and Test Methods	----	INSO 11196
108	Hexagon Nuts with Flange, Style 2 - Coarse Thread	✓		Specification and Test Methods	----	INSO 9741
109	Hexagon Regular Nuts (Style 1) with Metric Fine Pitch Thread - Product Grades A & B	✓		Specification and Test Methods	M6 - M36	INSO 9749
110	Stainless Steel Clamp Pipe Couplings for the Food Industry	✓		Specification and Test Methods	----	ISIRI 3853
111	Fasteners-Ends of Parts with External ISO Metric Thread	✓		Specification and Test Methods	----	INSO 11185
112	Butt-welding Steel Fittings for Natural	✓		Specification and Test Methods	----	INSO 3076

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No.	Product Name	Product Oriented ¹	Test Oriented ²	Test Title	Applicable Range	Reference
	Gas Piping of Buildings					
113	Stainless Steel Tubes for the Food Industry	✓		Specification and Test Methods	----	ISIRI 3855
114	Non-screwed Steel Pipes for General Purposes	✓		Specification and Test Methods	----	ISIRI 425
115	Plane Ended Cast Iron Pipes	✓		Specification and Test Methods	----	ISIRI 2367
116	Gas Transfer Steel Pipes for use in House, Structures and Joinery Units	✓		Specification and Test Methods	----	ISIRI 3360
117	API Gas Pipeline for Gas Distribution Network	✓		Specification and Test Methods	----	ISIRI 3574
118	Tubes and Tubular Steel Parts used in Water Supply	✓		Specification and Test Methods	----	ISIRI 3765
119	Line Pipe	✓		Specification and Test Methods	----	API 5L
120	Seamless Carbon Steel Pipe for High-Temperature Service	✓		Specification and Test Methods	----	ASTM A106
121	Electric Resistance Welded and	✓		Specification and Test Methods	----	ISIRI 3293

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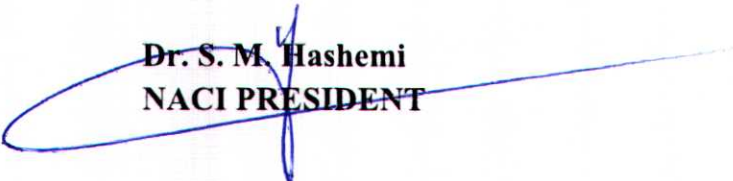


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No.	Product Name	Product Oriented ¹	Test Oriented ²	Test Title	Applicable Range	Reference
	Induction Welded Steel Tubes for use in Automobile and other Industrial Purposes					
122	Metal arc Welding Electrodes for Joint Welding Filler Rods for Unalloyed and Low-Alloyed Steels	✓		Specification and Test Methods	----	ISIRI 871
123	Carbon Steel Electrodes for Shielded Metal Arc Welding	✓		Specification and Test Methods	----	AWS A5.1
124	Stainless Steel Electrodes for Shielded Metal Arc Welding	✓		Specification and Test Methods	----	AWS A5.4
125	Low-Alloy Steel Electrodes for Shielded Metal Arc Welding	✓		Specification and Test Methods	----	AWS A5.5


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No.	Product Name	Product Oriented ¹	Test Oriented ²	Test Title	Applicable Range	Reference
126	Carbon Steel Electrodes and Rods for Gas Shielded Arc Welding	✓		Specification and Test Methods	-----	AWS A5.18
127	Low-Alloy Steel Electrodes and Rods for Gas Shielded Arc Welding	✓		Specification and Test Methods	-----	AWS A5.28
128	Agricultural Discs - Concave Type	✓		Specification and Test Methods	-----	ISIRI 2556
129	Steel Wire Ropes	✓		Specification and Test Methods	d: up to 25 mm	ISIRI 13870 ISO 2408 ISIRI 2680
130	Building valves	✓		Specification and Test Methods	-----	ISIRI 3664
131	Materials and Articles in Contact with Foodstuffs – Cutlery and Table Holloware of materials stainless steel	✓		Specification and Test Methods	-----	INSO 4346-1 INSO 4346-2
132	Extruded Aluminum	✓		Specification and Test Methods	-----	ISIRI 2384

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No.	Product Name	Product Oriented ¹	Test Oriented ²	Test Title	Applicable Range	Reference
133	Structural Steels – Plates, Wide Flats, Bars, Sections and Profiles	✓		Specification and Test Methods	----	ISIRI 11609
134	Hot Rolled Steel Equal Leg Angle	✓		Specification and Test Methods	----	ISIRI 13968-1
135	Hot Rolled Steel Unequal Leg Angle	✓		Specification and Test Methods	----	ISIRI 13968-2
136	Hot Dip Galvanized Coatings on Fabricated Iron and Steel Articles	✓		Specification and Test Methods	----	INSO 16353
137	Steel Wire Rod	✓		Dimensions Tolerances	----	INSO 14692
138	Hot Dip Galvanized Coatings on Ferrous materials		✓	Gravimetric Determination of the Mass per Unit Area	----	ISIRI 1545
139	Single Cold-Reduced Tinplate and Single Cold-Reduced Black Plate	✓		Specification and Test Methods	----	ISIRI 2368
140	Tinplate and Black plate	✓		Specification and Test Methods	----	JIS G3303
141	Industrial Valves		✓	Hydrostatic Pressure	----	API STD 598 (Clause 5&6) ISO 5208
142	Carbon and Low-Alloy Steel Tubes	✓		Specification and Test Methods	----	ASTM A450

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No.	Product Name	Product Oriented ¹	Test Oriented ²	Test Title	Applicable Range	Reference
143	Ferritic Alloy Steel, Austenitic Alloy Steel, and Stainless Steel Tubes	✓		Specification and Test Methods	-----	ASTM A 1016
144	Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels and for General Applications	✓		Specification and Test Methods	-----	ASTM A240
145	Stainless Steel Bars and Shapes	✓		Specification and Test Methods	-----	ASTM A276
146	Bars, Rods, Wire, Sections and Bright Products of Corrosion Resisting Steels	✓		Technical Delivery Conditions	----	BS EN 10088-5
147	Stainless Steels	✓		Chemical Composition Properties	-----	INSO 8410-1
148	Sheet/Plate and Strip of Corrosion Resisting Steels for General Purposes	✓		Technical Delivery Conditions	-----	INSO 8410-2 BS EN 10088-2

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No.	Product Name	Product Oriented ¹	Test Oriented ²	Test Title	Applicable Range	Reference
149	Semi-finished Products, Bars, Rods and Sections for General Purposes	✓		Technical Delivery Conditions	-----	INSO 8410-3 BS EN 10088-3
150	Sheet/Plate and Strip of Corrosion Resisting Steels for Structural Purposes	✓		Technical Delivery Conditions	-----	INSO 8410-4 BS EN 10088-4

1- Product Oriented: Laboratory is accredited to meet all requirements of the product specification standard.

2- Test Oriented: Laboratory is accredited for carrying out the tests mentioned in the above table.

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