



جمهوری اسلامی ایران
Islamic Republic of Iran



نظام تأیید صلاحیت ایران

تأیید صلاحیت
Accreditation

The IAS (Iran Accreditation System) herewith confirms that

نظام تأیید صلاحیت ایران بدینوسیله تأیید می نماید که

Razi Metallogical Research Company

آزمایشگاه متالورژی رازی

Address : Postal No:8, marjan Ave, Entrance of serkhe hesar, 21th km of karaj special Road Tehran-Iran

به نشانی : تهران - کیلومتر ۲۱ جاده مخصوص کرج - ورودی سرخه حصار - خیابان مرجان (فرنان) پلاک ۸

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شماره تلفن : ۰۲۶۲-۳۸۴۳۳۶۸
شماره دورنگار : ۰۲۶۲-۳۸۴۳۳۷۱

Based on requirements of ISO/IEC 17025

مطابق با الزامات استاندارد :
ایران - ایزو- آی ای سی ۱۷۰۲۵

Is competent to carry out test services in the fields of:

صلاحیت انجام خدمات آزمون مشروحه ذیل :

Polymer , Metallurgy (Mechanical , Metallographic) Quantometry , Chemical and Scanning electron microscopy

پلیمر ، متالورژی (مکانیکی - متالوگرافی - کوانتومتری)
شیمی و میکروسکوپ الکترونی

Detail of Accreditation Scope is listed in the annex.

را با شرح جزئیاتی که در پیوست این گواهینامه آمده است ،
دارا می باشد.

The Accreditation is valid from:
26.01.2008 to 26.01.2011

تاریخ اعتبار گواهینامه تأیید صلاحیت:
۸۶/۱۱/۶ تا ۸۹/۱۱/۶

IAS registration number: IAS/145

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تاریخ و محل صدور گواهینامه : ۸۶/۱۰/۲۳ - تهران

M.Nazemi Ardekani

محمد ناظمی اردکانی

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رئیس نظام تأیید صلاحیت ایران

PRESIDENT

۸۶/۱۱/۲۳



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Test methods for polymer

<u>Title</u>	<u>Designation</u>
1-Standard test method for Rubber –Identification by Infrared spectro photometry	ASTM D 3677
2- Standard practice for general techniques for obtaining infrared spectra for qualitative analysis	ASTM D 1252
3- Standard test methods for rubber property- durometer hardness	ASTM D 2240
4- Standard test method for density and specific gravity (Relative density) of plastics by displacement	ASTM D 792
5- Standard test method for vulcanized rubber and thermoplastic elastomers- tension	ASTM D 412
6- Standard test method for tensile properties of plastics	ASTM D 638
7- Standard test method for victa softening temperature of plastics	ASTM D 1525
8- Standard test method for determining the izod pendulum impact resistance of plastics	ASTM D 256
9- Standard test method for flexural properties of unreinforced and reinforced plastic and electrical insulating materials	ASTM D 790
10- Standard test method for melt flow rates of thermoplastics by extrusion plastometer	ASTM D 1238
11- Standard test method for determining the charpy impact resistance of notched specimens of plastics	ASTM D 6110
12- Standard test method for deflection temperature of plastics under flexural load in edgewise position	ASTM D 648
13- Rubber hose, textile-reinforced, for compressed air-specification	ISO 2398

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Test methods for metallurgy

<u>Title</u>	<u>Designation</u>
14-Tension Testing of Metallic Materials, from 0.5 tone to 50 tone	ASTM A370, DIN 50125, DIN EN 10002, ISO 6892
15-Bending Test of Materials	ASTM E290
16-Compression Test	DIN 53421
17-Notched Bar Impact Testing of Metallic Materials in Ambient Temperature and Low Temperatures(U-Notch & V-Notch)	ASTM E23, DIN 10045
18-Hardness Testing of Metallic Materials (Brinell).	ISIRI 7809-1
19-Hardness Testing of Metallic Materials(Vickers).	ISIRI 7810-1
20-Hardness Testing of Metallic Materials (Rockwell).	ISIRI 7811-1
21-Micro indentation Hardness of Materials.	ASTM E384
22-Standard test Methods for Optical Emission Vacuum Spectrometric Analysis of Carbon and Low alloy Steel, Aluminum and Aluminum Alloys, Copper and Copper Alloys, Nickel and Nickel Alloys, Zinc and Zinc Alloys	ASTM E415, ASTM E1251, ASTM E1019, ASTM E327, ASTM E634, ASTM E1999
23-Hot Rolled I-Beams – Medium Flange	ISIRI 1791
24-Hot Rolled I-Beams – Narrow Flange	ISIRI 3277
25-Hot Rolled Steel Bars for Reinforcement of Concrete	ISIRI 3132
26-Hot Reduced Carbon Steel Sheets with Commercial and Drawing Quality	ISIRI 3693
27-Hot Reduced Steel Sheets with Structural Quality	ISIRI 3694
28-Continuous Hot-Dip Zinc-Coated Carbon Steel Sheets with Commercial and Drawing Quality	ISIRI 7597
29-Continuous Hot-Dip Zinc-Coated Carbon Steel Sheets with Structural Quality	ISIRI 7596
30-Cold Reduced Steel Sheets with Structural Quality	ISIRI 5722
31-Cold Reduced Carbon Steel Sheets with Commercial and Drawing Quality	ISIRI 5723

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Title

Designation

32-Tests of Bolts, Studs, Screws and Nuts	ISIRI 2874, ISIRI 5654, ISIRI 5655, ISO 898, ASTM F606, ASTM A194, ASTM A193, ASTM F738, ASTM F836
33-Tests of Pipes	ISIRI 3360, ISIRI 3574, ISIRI 3765, ISIRI 3293, API 5L, ASTM A106
34-Evaluation of Si and P in Steel and Cast Iron	ASTM E350
35-Salt Spray Test	ASTM B117, ISIRI 2400
36-Preparation of Metallographic Specimens	ASTM E3
37-Electro Polishing	ASTM E1558
38-Macro Etching of Metals and Alloys	ASTM E340, ASTM A561
39-Macro Etching of Metals and Alloys	ASTM E381
40-Micro Etching of Metals and Alloys	ASTM E407
41-Reflected Light Photomicrography	ASTM E883
42-Preparing Sulfur Prints for Micro structural Examination	ASTM E1180
43-Production and Evaluation of Field Metallographic Replicas	ASTM E1351
44-Determining Average Grain Size	ASTM E112, ASTM E1382
45-Estimating the Largest Grain Observed in a Metallographic Section (ALA Grain Size)	ASTM E930
46-Characterizing Duplex Grain Sizes	ASTM E1181
47-Determining the Inclusion content of Steel	ASTM E1245, ASTM E45, ASTM E1122, Image Analyzer, Fox Method

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<u>Title</u>	<u>Designation</u>
48-Determining Volume Fraction by Systematic Manual Point Count	ASTM E562, Image Analyzer
49-Estimating the Depth of Decarburization of Steel Specimens	ASTM E1077
50-Steel Bars-Steel Sections Hot Rolled Round Edge Channels	ISIRI 4477
51-Forks, Shovels and Spades	ISIRI 587
52-Determination of Tin Coating Weights for Electrolytic Tin Plate	ASTM A630
53-Chromium Plated Tin Free Steel	JIS G3315
54-Measurement of Metal and Oxide Coating Thickness by Microscopical Examination of a Cross Section	Image Analyzer, ASTM B487, ASTM B5699
55-Measurement of Thickness of Metallic Coatings by Measurement of Cross Section with a Scanning Electron Microscope	ASTM B748
56-Preparing an Optical Microscope for Dimensional Measurements	Image Analyzer, ASTM F728
57-Microstructure of Iron Castings	Image Analyzer, ASTM A247, ISIRI 1597
58-Wrenches	ISIRI 834
59-Combination Wrench with Equal Openings	ISIRI 834-1
60-Specification for Extruded Aluminum Profiles	ISIRI 2384
61-Piping Fitting of Wrought Carbon and Alloy Steel	ISIRI 3076

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Test methods for chemistry

<u>Title</u>	<u>Designation</u>
62- Standard practice for operating salt spray(fog) apparatus	ASTM B 117
63- Standard test method for chemical analysis of carbon steel, Low-alloy steel , silicon electrical steel, Ingot iron and wrought iron	ASTM E 350
64- Standard test method for chemical analysis of copper and copper alloys (photometric methods)	ASTM E 62
65- Standard specification for wire and sieves for testing purposes	ASTM E 11
66- Standard test method for chemical analysis of aluminum and aluminum –Base Alloys	ASTM E 34
67- Standard test method for Ash in the analysis sample of coal and coke from coal	ASTM D 3174
68- Standard test method for volatile matter in analysis sample of coal and coke	ASTM D3175
69- Standard test method for determination of carbon , sulfur , nitrogen and oxygen in steel and iron , nickel and cobalt alloys	ASTM E 1019
70- method for chemical analysis of tin metal	JIS H 1141 , JIS H 1121
72-Acid requirement test (acid demand value)= ADV	Non standard
73- Standard test method for chemical analysis of zinc and zinc alloy	ASTM E 536

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Test methods for SEM $\times 5 \times 10^5$

<u>Title</u>	<u>Designation</u>
74-Measurement of Thickness of Metallic Coatings by Measurement of Cross Section with a Scanning Electron Microscope.	ASTM B748-01
75-Measurement of Coating Thickness with the Scanning Electron Microscope method .	DIN EN ISO 9220
76-Quantitative Analysis by Energy – Dispersive Spectroscopy.	ASTM E1508-98
77-Calibration the Magnification of a Scanning Electron Microscopy.	ASTM E766-98
78-Scanning Electron Microscope Beam Size Characterization.	ASTM E986-97
79-Rating and Classifying Inclusions in Steel Using the Scanning Electron Microscope.	ASTM E2142-01
80-Energy Dispersive X-Ray Spectrometer (EDX) Analysis of Metallic Surface Condition for Gas Distribution System Component.	ASTM F1375-92
81-Scanning Electron Microscopy (SEM) Analysis of Metallic Surface Condition for Gas Distribution System Components.	ASTM F1372-93

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