

**Deutsche Akkreditierungsstelle GmbH
German Accreditation Body**

Signatory to the Multilateral Agreements of
EA, ILAC and IAF for Mutual Recognition

Accreditation

The DAKkS GmbH (German Accreditation Body) attests that the

**Mobarakeh Steel Company
Joint Stock Organisation
Esfahan - Mobarakeh, Km15 South-West Mobarakeh
84815-161 Esfahan, IRAN**

is competent under the terms of DIN EN ISO/IEC 17025:2005 to carry out tests in the
following fields:

**mechanical-technological testing, material testing, metallographic investigation and
optical emission spectrometry tests of metallic materials;
physical-chemical and chemical analyses of metals and its components**

The accreditation certificate is valid until 07.08.2015. It comprises the cover sheet, the reverse side of the
cover sheet and the following annex with a total of 4 pages.

Registration number of the certificate: **D-PL-11151-01-00**

Berlin, 08.08.2010

See notes overleaf.



Dr. Heike Manke
Head of Department
Construction / Transport / Materials



Deutsche Akkreditierungsstelle GmbH German Accreditation Body

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The publication of extracts of the accreditation certificate is subject to the prior written approval by DAkkS Deutsche Akkreditierungsstelle GmbH. Exempted is the unchanged form of separate disseminations of the cover sheet by the conformity assessment body mentioned overleaf.

No impression shall be made that the accreditation also extends to fields beyond the scope of accreditation attested by DAkkS.

DAkkS is a signatory to the Multilateral Agreements for Mutual Recognition of the European co-operation for Accreditation (EA), International Accreditation Forum (IAF) and International Laboratory Accreditation Co-operation (ILAC). The signatories to these agreements recognise each others' accreditations.

The up-to-date state of membership can be retrieved from the following websites:

EA: www.european-accreditation.org

ILAC: www.ilac.org

IAF: www.iaf.nu



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07.09.2010

.....
Positive accreditation notice

Dear Mr Mirmoghtadaei,

.....
We are pleased to inform you that due to the results of the assessment on 10.-12.11.2009 the decision on accreditation is positive. The accreditation certificate will be sent to you as soon as possible. The accreditation is valid for five years from 08.08.2010.

We will perform the **next assessment** for surveillance in **Mai 2011** at the latest. With regard to the exact date, we will be contacting you in due time.

We would appreciate if you informed us, according to our contractual provisions, without being asked on all changes relevant to the accreditation.

Yours sincerely,

for DAkks 

Dr. Carsten Potzies
Customer Manager

.....
Verfahrensnummer:
PL-11151-01-00

Geschäftsführer:
Norbert Barz, Dr. Thomas Facklam

Sitz: Berlin
Amtsgericht Charlottenburg
HRB 122846 B
USt-IdNr: DE815123526

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Deutsche Akkreditierungsstelle GmbH
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Annex to the Accreditation Certificate D-PL-11151-01-00
according to DIN EN ISO/IEC 17025:2005

Period of validity: 08.08.2010 to 07.08.2015

Holder of certificate:

Mobarakeh Steel Company
Joint Stock Organisation
Esfahan - Mobarakeh, Km15 South-West Mobarakeh
84815-161 Esfahan, IRAN

Tests in the fields:

mechanical-technological testing, material testing, metallographic investigation and optical emission spectrometry tests of metallic materials;
physical-chemical and chemical analyses of metals and its components

abbreviations used: see last page

1 Mechanical-technological testing

ISO 7438 Metallic materials - Bend test
2005-06

in connection with:

ISIRI 1016 Metallic materials - Bend test of steel
1378-08

EN ISO 6506-1 Metallic materials - Brinell hardness test - Part 1: Test method
2005-12

EN ISO 6507-1 Metallic materials - Vickers hardness test - Part 1: Test method
2005-12

Annex to the accreditation certificate D-PL-11151-01-00

in connection with:

ISIRI 773
1367/09/09

Vickers hardness test

EN ISO 6508-1 2005-12	Metallic materials - Rockwell hardness test - Part 1: Test method (scales A, B, C, D, E, F, G, H, K, N, T)
DIN EN ISO 6892-1 2009-12	Metallic materials - Tensile testing - Part 1: Method of testing at ambient temperature - Method B
DIN EN 10002-1 2001-12	Metallic materials - Tensile testing - Part 1: Method of testing at ambient temperature <i>(withdrawn document, it will be used on request by the customer only)</i>
DIN EN 10045-1 1991-04	Charpy impact test on metallic materials - Part 1: Test method
ASTM E8-09 2009-12	Standard Test Methods for Tension Testing of Metallic Materials
ASTM E23-07 2007	Standard Test Methods for Notched Bar Impact Testing of Metallic Materials
JIS Z2241 1998-01	Method of tensile test for metallic materials

2 Physical-chemical and chemical analyses of metals and its components

ISO 9516 1992-10	Iron ores - Determination of silicon, calcium, manganese, aluminium, titanium, magnesium, phosphorus, sulfur and potassium - Wavelength dispersive X-ray fluorescence spectrometric method
ISO 9516-1 2003-04	Iron ores - Determination of various elements by X-ray fluorescence spectrometry - Part 1: Comprehensive procedure

The samples for XRF-analyses are prepared according to:

ASTM E1621-05 2005	Standard Guide for X-Ray Emission Spectrometric Analysis - Clause: 11.3.2 : Fused Beads
ASTM A623M-08 2008-01	Standard Specification for Tin Mill Products, General Requirements - Annex A7: Determination of chromium on Tin Plate by the Diphenyl-carbazide Method

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ASTM A630-09
2009-04 Standard Test Methods for Determination of Tin Coating Weights for Electrolytic Tin Plate - Method B: Determination of Tin Coating Weights by the Constant Current, Electrolytic Test Method (Referee Method)

ASTM E1019-08
2008-11 Standard Test Methods for Determination of Carbon, Sulfur, Nitrogen, and Oxygen in Steel, Iron, Nickel, and Cobalt Alloys by Various Combustion and Fusion Techniques

Clauses:

- 10 Carbon, Total, by the Combustion - Instrumental Measurement Method
- 32 Nitrogen by the Inert Gas Fusion - Thermal Conductivity Method
- 43 Oxygen by the Inert Gas Fusion Method
- 55 Sulfur by the Combustion-Infrared Absorption Method

The samples for physical-chemical and chemical analyses are prepared according to:

*ISO 3082 Iron ores - Samples and sample preparation
2000-12 procedures*

3 Optical emission spectrometry of metallic materials

BS EN 15079
2007-06 Copper and copper alloys - Analysis by spark source optical emission spectrometry (S-OES)

ASTM E415-08
2008-06 Standard Test Method for Atomic Emission Vacuum Spectrometric Analysis of Carbon and Low-Alloy Steel

ASTM E1086-08
2008-10 Standard Test Method for Optical Emission Vacuum Spectrometric Analysis of Stainless Steel by Point-to-Plane Excitation Technique

ASTM E1251-07
2007-06 Standard Test Method for Analysis of Aluminium and Aluminium Alloys by Atomic Emission Spectrometry

ASTM E1999-99
2004-10 Standard Test Method for Analysis of Cast Iron Using Optical Emission Spectrometry

4 Material testing of coated metals

BS EN ISO 1460
1995-05 Metallic coatings - Hot dip galvanised coatings on ferrous materials - Gravimetric determination of the mass per unit area

DIN EN 13523-2
2001-12 Coil coated metals - Test methods - Part 2: Specular gloss

Annex to the accreditation certificate D-PL-11151-01-00

DIN EN 13523-3 Coil coated metals - Test methods - Part 3: Colour difference -
2001-12 Instrumental comparison

5 Metallographic Investigation by Microscopy

ASTM E45-05 Standard Test Methods for Determining the Inclusion Content
2005-12 of Steel
 Clause 14: Method C - Oxides and Silicates
 Clause 15: Method D - Low Inclusion Content

ASTM E112-04 Standard Test Methods for Determining Average Grain Size
2004-12 Clause 10: Comparison Procedure
 Clause 11: Planimetric Procedure

abbreviations used:

ASTM American Society for Testing and Materials
BS British Standard
JIS Japanese Industrial Standard