



IRAN ALLOY STEEL CO.
QUALITY CONTROL DEPARTMENT

INSPECTION CERTIFICATE

Iran Alloy Steel Co.

Number: **QC/95/12283**

Date: **1395/12/10**

Order No.: **ORD-085587**

Heat No.: **1733189**

Grade: **0416D (C15C)**

Material Des.: **ROUND 0416D 20 MM BLACK ;COIL;**

Delivery Standard: **DIN EN 10263(2001)**

Heat Analysis(% wt):

C	Si	Mn	P	S	Cr	Ni	Mo	Cu	Al
0.15	0.11	0.41	0.010	0.001	0.04	0.04	0.01	0.03	0.022

Dimension(mm):

Diameter: 20	+0.5
	-0.5

Note: **ACCORDING TO DIN EN 10060 (2004) (Random Check)**



On-Line Surface Testing:

Test Method: **Visual Test** Test Coverage: **Random**

Heat Treatment Condition At Delivery:

Heat Treatment: **Untreated**

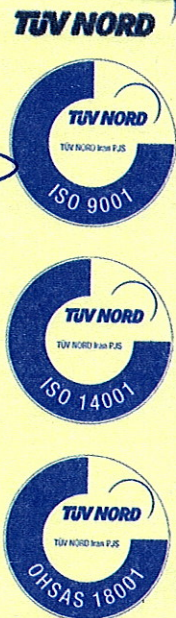
Hardness: **126-128 HB**

Mechanical Properties: According to DIN EN 10263 (2001)

Re(N/mm ²)	Rm(N/mm ²)	A %	Z %
322	440	24.7	62

Note: This document is Issued in accordance with DIN EN 10 204(3.1):2005

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Number: QC/95/00290

Date: 1395/01/21

Order No.: ORD-079698

Heat No.: 1633126

Grade: 0416D (C15C)

Material Des.: ROUND 0416D 20 MM BLACK ;COIL;

Delivery Standard: DIN EN 10263(2001)

Heat Analysis(%wt):

C	Si	Mn	P	S	Cr	Ni	Mo	Cu	Al
0.14	0.27	0.43	0.012	0.002	0.06	0.04	0.02	0.05	0.037

Dimension(mm):

Diameter: 20	+0.5
	-0.5

Note: ACCORDING TO DIN EN 10060(2004)(Random Check)



On-Line Surface Testing:

Test Method: VISUAL TEST Test Coverage: RANDOM

Heat Treatment Condition At Delivery:

Heat Treatment: UNTREATED

Mechanical Properties:

Re(N/mm ²)	Rm(N/mm ²)	A %	Z %	Hardness
313	457	32.9	61.8	121-126 HB

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TUV NORD





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Number: QC/93/13707

Date: 1393/12/22

Order No.: ORD-074054

Heat No.: 1530497

Grade: 0416D (C15C)

Material Des.: ROUND 0416D 20 MM BLACK ;COIL;

Delivery Standard: DIN EN 10263(2001)

Heat Analysis(%wt):

C	Si	Mn	P	S	Cr	Ni	Mo	Cu	Al
0.15	0.31	0.41	0.017	0.006	0.06	0.04	0.01	0.05	0.037



Dimension(mm):

Diameter: 20 ^{+0.5}
 -0.5

Note: ACCORDING TO DIN EN 10060(2004)(Random Check)

On-Line Surface Testing:

Test Method: VISUAL TEST Test Coverage: RANDOM

Heat Treatment Condition At Delivery:

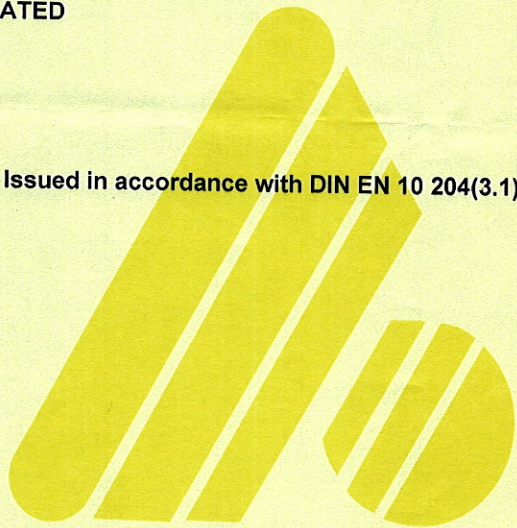
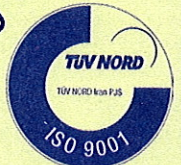
Heat Treatment: UNTREATED

Hardness: 128-131HB

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INSPECTION CERTIFICATE

Number: QC/93/13706

Date: 1393/12/22

Order No.: ORD-074054

Heat No.: 1510463

Grade: 0416D (C15C)

Material Des.: ROUND 0416D 20 MM BLACK ;COIL;

Delivery Standard: DIN EN 10263(2001)

Heat Analysis(%wt):

C	Si	Mn	P	S	Cr	Ni	Mo	Cu	Al
0.14	0.34	0.39	0.021	0.004	0.06	0.04	0.01	0.04	0.035



Dimension(mm):

Diameter: 20 ^{+0.5}
 -0.5

Note: ACCORDING TO DIN EN 10060(2004)(Random Check)

On-Line Surface Testing:

Test Method: VISUAL TEST Test Coverage: RANDOM

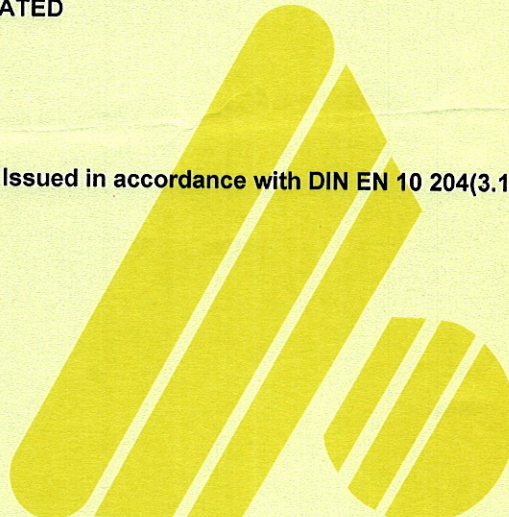
Heat Treatment Condition At Delivery:

Heat Treatment: UNTREATED

Hardness: 124-126HB

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Number: QC/96/02789

Date: 1396/03/16

Order No.: ORD-087898

Heat No.: 1734005

Grade: 0416D (C15C)

Material Des.: ROUND 0416D 20 MM BLACK ;COIL;

Delivery Standard: DIN EN 10263(2001)

Heat Analysis(% wt):

C	Si	Mn	P	S	Cr	Ni	Mo	Cu	Al
0.16	0.11	0.42	0.010	0.002	0.01	0.04	0.00	0.04	0.022

Dimension(mm):

Diameter: 20	+0.5
	-0.5

Note: ACCORDING TO DIN EN 10060 (2004) (Random Check)

On-Line Surface Testing:

Test Method: Visual Test Test Coverage: Random

Heat Treatment Condition At Delivery:

Heat Treatment: Untreated

Hardness: 121-128 HB

Mechanical Properties: According to DIN EN 10263 (2001)

Re(N/mm ²)	Rm(N/mm ²)	A %	Z %
298	440	32.6	65.5

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Iran Alloy Steel Co.

Number: QC/95/12164

Date: 1395/12/08

Order No.: ORD-086306

Heat No.: 1710179

Grade: 0416D(C15C)

Material Des.: ROUND 0416D 20 MM BLACK ;COIL;

Delivery Standard: DIN EN 10263(2001)

Heat Analysis(%wt):

C	Si	Mn	P	S	Cr	Ni	Mo	Cu	Al
0.16	0.10	0.41	0.009	0.004	0.02	0.03	0.00	0.01	0.030

Dimension(mm):

Diameter: 20	+0.5
	-0.5

Note: ACCORDING TO DIN EN 10060(2004)

On-Line Surface Testing:

Test Method: VISUAL TEST Test Coverage: RANDOM

Heat Treatment Condition At Delivery:

Heat Treatment: Untreated

Hardness: 118-121 HB

Mechanical Properties:

Re(N/mm ²)	Rm(N/mm ²)	A %	Z %
303	440	31.8	68.3

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Number: **QC/95/11076**Date: **1395/11/10**Order No.: **ORD-086302**Heat No.: **1710177**Grade: **0416D(C15C)**Material Des.: **ROUND 0416D 18 MM BLACK ;COIL;**Delivery Standard: **DIN EN 10263(2001)****Heat Analysis(%wt):**

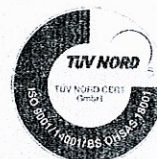
C	Si	Mn	P	S	Cr	Ni	Mo	Cu	Al
0.15	0.09	0.42	0.008	0.002	0.02	0.03	0.01	0.01	0.030

Dimension(mm):

Diameter: 19	+0.5	-0.5
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Note: **ACCORDING TO DIN EN 10060(2004)(Random Check)****On-Line Surface Testing:**Test Method: **VISUAL TEST** Test Coverage: **RANDOM****Heat Treatment Condition At Delivery:**Heat Treatment: **UNTREATED**Hardness: **112-114 HB****Mechanical Properties:**

Re(N/mm ²)	Rm(N/mm ²)	A %	Z %
256	402	33.8	65.3

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