



ESFARAYEN INDUSTRIAL COMPLEX
Manufacturer of Different Forged Sections & Parts

EICO

Mill Test Certificate

EN10204 / 3.1

Date: 1404/11/26
No: QC/306/17814



We hereby certify that the test results present here are accurate and conform to the reported grade specification



Batch Name: 43CDF01 Heat No.: 240926-01 Steel Grade: 40CrNiMo58-6 / 1.2312 Ac10 D11 Number Of Pieces: 2

Order No.: 1403075/10 Customer Name: sahband Delivery Condition: Forged Bar, Quenched & Tempered

NDT Result

Name	Dimensional Check(DC)	Ultrasonic Test(UT)
Acceptance	SKODA	SEP1921 IIIC/c
Result	OK	OK

DC Result

Piece No.	40401411	40401412
Length(mm)	2294	2857
Dimension (a mm)	510x250	510x250
Weight(kg)	2350	2680

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Chemical Analysis(%Wt)

	Elements									
	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	
Max	0.45	0.5	1.6	0.03	0.1	2	0.3	0.25	0.3	
Min	0.35	0.3	1.4		0.05	1.8		0.15		
Ladle	0.4	0.38	1.45	0.0165	0.0501	1.895	0.033	0.1882	0.0169	

Mechanical Properties Values

Name	Hardness(HB)	Reduction Ratio
Acceptance	280-320	...
Result	300 - 315	8

Melting And Refining Process: EAF+LF+ VD+IC(Ingot Casting)

These Products are free from Radioactive & Cadmium & Mercury.
Visual inspection and control of dimensional accuracy have been performed.
Testing for surface has been performed.
This Certificate Without sign, seal and hologram is not credible.

O.C. DEPARTMENT



Provided by:
S.Mohabbati

Approved by:
M.Sanglakh

Authenticated by:
Z.Khosrabbaki

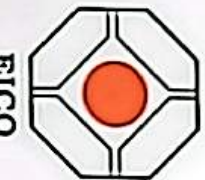
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Mill Test Certificate

EN10204 / 3.1

Date: 1404/07/17
No: QC009/115374



We hereby certify that the test results present here are accurate and conform to the reported grade specification

Batch Name: 43ND201	Heat No.: 250526-10	Steel Grade: X210Cr12 Ac2to DIN EN ISO 4957	Number Of Pieces: 1
Order No.: 1403211/12	Customer Name: sahand	Delivery Condition: Forged Bar, Normalized, Rough Turned	
NDT Result			
Name	Dimensional Check(DC)	Ultrasonic Test(UT)	
Acceptance	DIN 7168g	SEP1921 III/C/c	
Result	OK	OK	
DC Result			
Piece No.	40405661		
Length(mm)	6240		
Dimension(D mm)	242		
Weight(kg)	2251		

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Chemical Analysis(%Wt)

Elements					
C	Si	Mn	P	S	Cr
Max 2.2	0.6	0.6	0.03	0.03	12
Min 1.9	0.1	0.2			11
Ladle 1.55	0.23	0.3	0.0108	0.0018	11.277

Mechanical Properties Values

Name	Hardness(HB)	Reduction Ratio
Acceptance	Max248	...
Result	Max 220	6



O.C. DEPARTMENT

Melting And Refining Process: EAF+LF+ VD+IC(Ingot Casting)

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Provided by: S Mohabbati	Approved by: M Sanglani	Authenticated by: Z Khoshbakht
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Mill Test Certificate

EN10204 / 3.1

Date: 14/04/07/01

No: OC/306/115125



We hereby certify that the test results present here are accurate and conform to the reported grade specification

Batch Name: 4308BT01	Heat No.: 250720-02	Steel Grade: W303 / X40CrMoV5 1 / 1.2344 Ac10 DIN 17350	Number Of Pieces: 2
Order No.: 1403212/11	Customer Name: salhand	Delivery Condition: forged bar, finished, rough turned	

NDT Result

Name	Dimensional Check(DC)	Ultrasonic Test(UT)
Acceptance	DIN7168/g	SEP1921 III/C/c
Result	OK	OK

DC Result

Piece No.	40405101	40405102
Length(mm)	2543	2575
Dimension(D mm)	202	202
Weight(kg)	639	647

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Chemical Analysis(%Wt)

	Elements							
	C	Si	Mn	P	S	Cr	Mo	V
Max	0.42	1.2	0.5	0.03	0.03	5.5	1.5	1.15
Min	0.35	0.8	0.25			4.8	1.2	0.85
Ladle	0.42	0.97	0.4	0.011	0.0018	5.008	1.2827	0.9113

Mechanical Properties Values

Name	Hardness(HB)	Reduction Ratio
Acceptance	Max 230HB	...
Result	Max 210	5.5



O.C. DEPARTMENT

Melting And Refining Process: EAF+LF+ VD+IC(Ingot Casting)

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Testing for surface has been performed.

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Provided by: S.Mohabbati	Approved by: M.Sanglakh	Authenticated by: Z.Khoshbakhti
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Mill Test Certificate

EN10204 / 3.1

Date: 1404/09/22

No: QC/306/116457



We hereby certify that the test results present here are accurate and conform to the reported grade specification

Batch Name: 430AD02	Heat No.: 220818-03	Steel Grade: X40CrMoV5 1 / 1.2344 Acro DIN EN ISO 4957	Number Of Pieces: 1
Order No.: 1403102/1	Customer Name: sahband	Delivery Condition: Forged Bar, Specimen Attached, rough turned	

NDT Result

Name	Dimensional Check(DC)	Ultrasonic Test(UT)
Acceptance	DIN7168/g	SEP1921 IIIC/c
Result	OK	OK

DC Result

Piece No.	40403230
Length(mm)	4300-6000
Dimension(Ø mm)	60
Weight(kg)	180

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Chemical Analysis(%Wt)

	Elements									
	C	Si	Mn	P	S	Cr	Ni	Mo	V	Cu
Max	0.42	1.2	0.5	0.03	0.03	5.5	0.2	1.5	1.15	0.2
Min	0.35	0.6	0.25			4.8		1.2	0.85	
Ladle	0.4	0.58	0.42	0.01	0.0021	5.045	0.2	1.2248	0.9235	0.0543

Mechanical Properties Values

Name	Hardness(HB)	Reduction Ratio
Acceptance	Max229HB	...
Result	Max 217	20+



O. C. DEPARTMENT

Melting And Refining Process: EAF+LF+ VD+IC(Ingot Casting)

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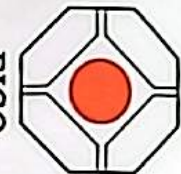
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Mill Test Certificate

EN10204 / 3.1

Date: 1405/01/16
No: QC/306/118215



We hereby certify that the test results present here are accurate and conform to the reported grade specification

Batch Name: 44XSK01	Heat No.: 251215-06	Steel Grade: 42CrMo4 AcTo EN 10250-3/99	Number Of Pieces: 1
Order No.: 1404121/27	Customer Name: sahnd	Delivery Condition: forged bar, normalized	

NDT Result	Dimensional Check(DC)	Ultrasonic Test(UT)
Name	DIN7527/6	SEP192.III C/c
Acceptance	OK	OK
Result		

DC Result	Piece No.	40411417
	Length(mm)	6052
	Dimension (a mm)	500x400
	Weight(kg)	9581

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Chemical Analysis(%Wt)

Elements							
	C	Si	Mn	P	S	Cr	Mo
Max	0.45	0.4	0.9	0.035	0.035	1.2	0.3
Min	0.38		0.6			0.9	0.15
Ladle	0.41	0.25	0.78	0.0072	0.0057	1.028	0.1688

Mechanical Properties Values

Name	Hardness(HB)	Reduction Ratio
Acceptance	180-240	...
Result	185 - 212	5.1

Melting And Refining Process: EAF+LF+ VD+IC(Ingot Casting)

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Testing for surface has been performed.
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Provided by: S. Mohabbati	Approved by: M. Sanglakh	Authenticated by: Z. Khoshtbakh
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EN10204 / 3.1

Date: 1404/11/12
No: QC/308/17479



We hereby certify that the test results present here are accurate and conform to the reported grade specification

Batch Name: 44XAW05	Heat No.: 251024-04	Steel Grade: 42CrMo4 Accto EN 10250-3	Number Of Pieces: 1
Order No.: 1404006/15	Customer Name: sahand	Delivery Condition: Forged Bar - Normalized	

NDT Result

Name	Dimensional Check(DC)	Ultrasonic Test(UT)
Acceptance	DIN7527/6	SEP1921 IIC/C
Result	OK	OK

DC Result

Piece No.	40409331
Length(mm)	9926
Dimension(Ø mm)	300
Weight(kg)	5580

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Chemical Analysis(%Wt)

	Elements						
	C	Si	Mn	P	S	Cr	Mo
Max	0.45	0.4	0.9	0.035	0.035	1.2	0.3
Min	0.38		0.6			0.9	0.15
Ladle	0.4	0.27	0.77	0.0168	0.001	1.025	0.1638

Mechanical Properties Values

Name	Hardness(HB)	Reduction Ratio
Acceptance	---	...
Result	170 - 209	4.9

Melting And Refining Process: EAF+LF+ VD+IC(Ingot Casting)

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O.C. DEPARTMENT



Provided by:
S.Mohabbati

Approved by:
M.Sanglakh

Authenticated by:
Z.Khosbakh

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EN10204 / 3.1

Date: 1404/08/26
No: QC/306/116031

We hereby certify that the test results present here are accurate and conform to the reported grade specification



Batch Name: 44BAM02	Heat No.: 251007-05	Steel Grade: 16MnCr5 AcTo DIN EN 10084	Number Of Pieces: 3
Order No.: 140400777	Customer Name: sahand	Delivery Condition: Forged Bar , Annealed	

NDT Result	
Name	Dimensional Check(DC) Ultrasonic Test(UT)
Acceptance	DIN7527/6 SEP1921 IIIC/c
Result	OK OK

DC Result	
Piece No.	40406634
Length(mm)	3000-8000
Dimension(Ø mm)	160
Weight(kg)	2755

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Chemical Analysis(%Wt)

Elements						
	C	Si	Mn	P	S	Cr
Max	0.19	0.4	1.3	0.035	0.035	1.1
Min	0.14		1			0.8
Ladle	0.16	0.25	1.19	0.008	0.0014	1.008

Mechanical Properties Values

Name	Hardness(HB)	Reduction Ratio
Acceptance	Max 207	...
Result	Max 151	16.2

Melting And Refining Process: EAF+LF+ VD+IC(Ingot Casting)

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Provided by: S.Mohabbati	Approved by: M.Sanglakh	Authenticated by: Z.Khoshbakh
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Mill Test Certificate

EN10204 / 3.1

Date: 1404/10/03

No: QC/306/116735



We hereby certify that the test results present here are accurate and conform to the reported grade specification

Batch Name: 44ZNA01	Heat No.: 251123-08	Steel Grade: CK45 Accto EN 10250-2/99	Number Of Pieces: 1
Order No.: 1404119/41	Customer Name: sahband	Delivery Condition: Forged Bar, Normalized	
NDT Result			
Name	Dimensional Check(DC)	Ultrasonic Test(UT)	
Acceptance	DIN75276	SEP1921111C/c	
Result	OK	OK	
DC Result			
Pieces No.	40408395		
Length(mm)	5555		
Dimension(D mm)	700		
Weight(kg)	17054		

✓
1191

Chemical Analysis(%Wt)

	Elements									
	C	Si	Mn	P	S	Cr	Ni	Mo	Cr+Mo+Ni	
Max	0.5	0.4	0.8	0.035	0.035	0.4	0.4	0.1	0.63	
Min	0.42		0.5							
Ladle	0.43	0.25	0.67	0.0067	0.0041	0.12	0.031	0.0098	0.16	

Mechanical Properties Values

Name	Hardness(HB)	Reduction Ratio
Acceptance	...	...
Result	140 - 152	6.9



O. C. DEPARTMENT

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Provided by: S.Mojabbai	Approved by: M.Sanglakh	Authenticated by: Z.Khosbakh
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