



**STAHLWERK
THÜRINGEN**

A03 Certificate No. 848/2-2018 1/2
Advice No. A180207020

A02 Test Report
according to ASTM A6



A01 Stahlwerk Thüringen GmbH
A05 Quality Assurance Department
Kronacher Straße 6
07333 Unterwellenborn
Germany

A04 A06
Ferre Barniedo S.A. de C.V.
Col. san Cristóbal
Av. Revolucion N°81
55024 Ecatepec
MEXICO

A08 Our Order No.: 2072244147
A07 Your Order No.: 601866

B03 Quality: A992
according to: ASTM A992

Pos.	Heat No.	Dimension	Length	Pieces	Theoretical Weight
A10	B07	B01	B09	B08	B12
001	88700	C 12X20,7	480 in	350	131 460 kg
001	88701	C 12X20,7	480 in	140	52 584 kg
001	88702	C 12X20,7	480 in	180	67 608 kg
002	88694	C 12X35	480 in	116	63 143 kg

Heat Analysis [%]										
Heat No.	C	Si	Mn	P	S	N	Al	Nb	V	Cr
B07	C71	C72	C73	C74	C75	C76	C77	C78	C79	C80
max	0.23	0.40	1.50	0.035	0.045	0.012		0.040	0.010	0.35
min		0.10	0.50							
88694	0.08	0.18	0.91	0.018	0.026	0.009	0.003	0.018	0.005	0.08
88700	0.08	0.20	0.94	0.022	0.022	0.009	0.004	0.021	0.006	0.11
88701	0.09	0.20	0.94	0.021	0.024	0.009	0.004	0.020	0.006	0.09
88702	0.09	0.20	0.94	0.027	0.029	0.009	0.005	0.021	0.006	0.09

Heat Analysis [%]						
Heat No.	Cu	Ni	Mo	CEV1	Sn	Bi-V
B07	C81	C82	C83	C83	C84	C84
max	0.60	0.45	0.15	0.45		0.080
min						
88694	0.27	0.14	0.03	0.28	0.013	0.023
88700	0.29	0.13	0.03	0.29	0.012	0.027
88701	0.29	0.10	0.02	0.30	0.012	0.026
88702	0.33	0.10	0.02	0.29	0.012	0.027

Z03 Works inspector
René Merbach

Z02 Feb 7, 2018



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THÜRINGEN**

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2/2

A02

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Ferre Barniedo S.A. de C.V.
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Av. Revolucion N°81
55024 Ecatepec
MEXICO

A08

Our Order No.: 2072244117

A07

Your Order No.: 601866

B02

Quality: A992
according to: ASTM A992

Tensile test
Heat No.

Yield stress
[PSI]

Tensile strength
[PSI]

Elongation
[%]

Ys/Ts

B07

max

65000

C11

min

65000

C12

21.0

C14

0.85

88694/1

58580

73225

31.0

0.80

88694/2

55100

72645

32.5

0.76

88700/1

58000

72645

30.0

0.80

88700/2

56115

73660

31.5

0.76

88701/1

58580

73805

30.0

0.79

88701/2

55535

73225

32.0

0.76

88702/1

57130

72645

30.0

0.79

88702/2

55680

72935

31.5

0.76

Z01

- electric arc melting
Melted & Manufactured in Germany

We confirm herewith that the delivered material complies with the terms of the order.

Z03

Works inspector
René Merbach

Z02

Feb 7, 2018