

35660

original



**STAHLWERK
THÜRINGEN**

A03 Certificate No. 2896/2-2019 1/2
Advice No. A190221134
A02 Test Report
according to ASTM A6
A04 **SWT**
A06

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

A08 Our Order No.: 2080909118
A07 Your Order No.: TAC281

B02 Quality: A992 DUAL
according to: ASTM A992 -
ASTM A572 GR50

Ferrecabsa, SA de CV
Holbein No 217-Desp. 402
COL. Nochebuena
03720 C. P. Deligación Benito Juárez,
MEXICO

Pos.	Heat No.	Dimension	Length	Pieces	Theoretical Weight
A10	B07	B01	B09	B08	B12
001	20914	C 12X20,7	480 in	112	42 064 kg
001	20915	C 12X20,7	480 in	140	52 580 kg
001	20916	C 12X20,7	480 in	126	47 322 kg
001	20917	C 12X20,7	480 in	42	15 774 kg

Heat Analysis [%]										
Heat No.	C	Si	Mn	P	S	N	Nb	V	Cr	Cu
B07	C71	C72	C73	C74	C75	C76	C77	C78	C79	C80
max	0.23	0.40	1.50	0.035	0.045	0.012	0.050	0.110	0.35	0.60
min		0.10	0.50				0.005			
20914	0.07	0.19	0.92	0.014	0.018	0.009	0.020	0.005	0.10	0.34
20915	0.08	0.20	0.92	0.023	0.025	0.010	0.019	0.005	0.10	0.41
20916	0.08	0.20	0.93	0.026	0.027	0.010	0.018	0.005	0.09	0.39
20917	0.08	0.20	0.94	0.023	0.024	0.010	0.019	0.005	0.09	0.37

Heat Analysis [%]				
Heat No.	Ni	Mo	CEV1	Sn
B07	C81	C82	C83	C83
max	0.45	0.15	0.45	
min				
20914	0.14	0.03	0.29	0.013
20915	0.16	0.03	0.30	0.015
20916	0.15	0.03	0.30	0.014
20917	0.14	0.03	0.29	0.014

Z03 Works inspector
René Merbach

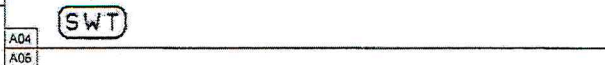
Z02 Feb 22, 2019



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Tensile test				
Heat No.	Yield stress [PSI]	Tensile strength [PSI]	Elongation 2 in [%]	Ys/Ts
B07	C11	C12	C13	C14
max	65000			0.85
min	50000	65000	21.0	
20914/1	55245	72790	35.6	0.76
20914/2	55245	71775	40.3	0.77
20915/1	57130	73225	35.6	0.78
20915/2	55390	72500	40.3	0.76
20916/1	57420	74820	35.6	0.77
20916/2	55390	72210	40.9	0.77
20917/1	56840	74385	35.6	0.76
20917/2	55390	72065	40.9	0.77

Z01

- electric arc melting
- Melted & Manufactured in Germany
- fine grain silicon killed

HOT ROLLED, NON-ALLOYED CARBON STEEL PROFILES

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

Z03 Works inspector
René Merbach



Z02 Feb 22, 2019