



STAHLWERK THÜRINGEN
Grupo Alfonso Gallardo

Advice No. A100426093

A02 Test Report

according to ASTM A6

A01 Stahlwerk Thüringen GmbH

A05 Quality Assurance Department
Kronacher Straße 6
07333 Unterwellenborn
Germany

A04 **SWT**

A06

Plesa Anahuac y Cias, S.A. de C.V.
Colonia San Francisco Chilpan
Av. Valle de las Alamedas N°66
54490 Tultitlan
MEXICO

A08 Our Order No.: 2013737110

A07 Your Order No.: PO 7754 - TAC 80

B02 Grade: ASTM A992-06A
according to: CSA G40.21-04 50W/
ASTM A572-07 GRADE 50/
A992-06A (TRIPLE CERTIFIED)

Pos.	Heat No.	Dimension	Length	Pieces	Weight
A10	B07	B01	B09	B08	B13
001	79283	C 10X15,3	480 in	36	9 880 kg
001	79284	C 10X15,3	480 in	252	70 085 kg
001	79285	C 10X15,3	480 in	54	15 000 kg
002	79277	C 10X20	480 in	60	21 635 kg
002	79278	C 10X20	480 in	30	10 835 kg
003	79273	C 10X25	480 in	70	31 380 kg
003	79274	C 10X25	480 in	20	9 055 kg
004	78775	C 12X20,7	480 in	140	52 400 kg
004	78776	C 12X20,7	480 in	110	41 535 kg
005	78783	C 12X30	480 in	77	42 470 kg
005	78784	C 12X30	480 in	35	19 340 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							
78775	0.09	0.22	1.15	0.020	0.024	0.009	0.016	0.006	0.08	0.35
78776	0.09	0.20	1.13	0.021	0.023	0.007	0.015	0.005	0.11	0.34
78783	0.09	0.20	1.12	0.020	0.020	0.008	0.016	0.005	0.09	0.32
78784	0.09	0.20	1.14	0.018	0.019	0.008	0.016	0.006	0.10	0.34
79273	0.08	0.21	1.19	0.022	0.024	0.006	0.013	0.005	0.08	0.31
79274	0.06	0.19	1.10	0.020	0.022	0.007	0.012	0.005	0.08	0.31
79277	0.07	0.20	1.12	0.024	0.022	0.005	0.013	0.005	0.13	0.35
79278	0.06	0.19	1.10	0.020	0.022	0.007	0.012	0.005	0.08	0.31
79283	0.07	0.20	1.13	0.020	0.021	0.006	0.012	0.004	0.08	0.29
79284	0.07	0.21	1.14	0.026	0.021	0.005	0.012	0.004	0.09	0.27
79285	0.08	0.22	1.15	0.024	0.023	0.006	0.013	0.005	0.12	0.29

Z03 Works inspector
Renate Schmidt

Z02 Apr 27, 2010



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Certificate No. 2678/4-2010

2/3

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Heat Analysis [%]

Heat No.	Ni	Mo	CEV1	Sn
[B07]	[C71]	[C72]	[C93]	[C73]
max	0.45	0.15	0.45	
min				
78775	0.12	0.03	0.34	0.015
78776	0.12	0.03	0.33	0.014
78783	0.14	0.03	0.33	0.018
78784	0.14	0.04	0.34	0.024
79273	0.17	0.05	0.33	0.014
79274	0.17	0.04	0.31	0.014
79277	0.17	0.04	0.33	0.019
79278	0.17	0.04	0.31	0.014
79283	0.12	0.03	0.31	0.026
79284	0.11	0.03	0.31	0.017
79285	0.12	0.03	0.33	0.015

Tensile test

Heat No.	Yield stress [PSI]	Tensile strength [PSI]	Elongation 2 in [%]	Ys/Ts
[B07]	[C11]	[C12]	[C13]	[C14]
max	65000		21.0	0.85
min	50000	65000		
78775/1	53215	76705	38.3	0.69
78775/2	55970	72790	42.2	0.77
78776/1	53360	76270	38.3	0.70
78776/2	55245	73080	42.2	0.76
78783/1	54085	75255	39.6	0.72
78783/2	55680	73225	42.9	0.76
78784/1	55680	76270	38.3	0.73
78784/2	56115	73225	42.9	0.77
79273/1	52780	71920	39.6	0.73
79273/2	55825	72935	42.9	0.77
79274/1	51475	71485	39.6	0.72
79274/2	54665	72065	43.6	0.76
79277/1	51765	74675	40.9	0.69
79277/2	55535	73080	42.2	0.76
79278/1	52055	73660	39.6	0.71

Z03

Works inspector
Renate Schmidt

Z02

Apr 27, 2010



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Tensile test Heat No.	Yield stress [PSI] [C11]	Tensile strength [PSI] [C12]	Elongation 2 in [%] [C13]	Ys/Ts [C14]
				0.85
max	65000	65000	21.0	
min	50000		43.6	0.76
79278/2	54665	72065	40.9	0.72
79283/1	51765	72065	42.9	0.74
79283/2	53215	72355	39.6	0.71
79284/1	51620	72935	42.2	0.73
79284/2	53360	72645	39.6	0.69
79285/1	52055	75255	41.6	0.75
79285/2	54810	73370		

B14

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Renate Schmidt

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