



STAHLWERK THÜRINGEN
Grupo Alfonso Gallardo

A03 Certificate No. 2915/9-2011 1/3
Advice No. A110930006

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.: 2023017111
A07 Your Order No.: e-mail from 05.08.
2011

B02 Quality: A572 GRADE 50
according to: ASTM A572 GRADE 50

PED 10943

Pos.	Heat No.	Dimension	Length	Pieces	Weight
A10	B07	B01	B09	B08	B13
001	14486	C 10X15,3	480 in	135	36 875 kg
001	14487	C 10X15,3	480 in	99	27 350 kg
001	14488	C 10X15,3	480 in	27	7 525 kg
002	14483	C 10X20	480 in	63	22 670 kg
002	14484	C 10X20	480 in	126	45 330 kg
003	14480	C 10X25	480 in	63	28 605 kg
003	14481	C 10X25	480 in	40	18 170 kg
004	14476	C 10X30	480 in	91	49 170 kg
005	14562	C 12X20,7	480 in	9	3 330 kg
005	14563	C 12X20,7	480 in	135	50 235 kg
005	14564	C 12X20,7	480 in	90	33 555 kg
006	14544	C 12X25	480 in	36	16 350 kg
006	14545	C 12X25	480 in	81	36 785 kg
007	14541	C 12X30	480 in	45	24 450 kg
007	14542	C 12X30	480 in	54	29 295 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	0.20	0.40		0.040	0.050			0.050		
min								0.005		
14476	0.08	0.19	1.10	0.021	0.026	0.009	0.001	0.014	0.009	0.07
14480	0.08	0.19	1.13	0.024	0.024	0.010	0.004	0.016	0.008	0.08
14481	0.08	0.20	1.13	0.025	0.023	0.011	0.002	0.016	0.009	0.07
14483	0.08	0.20	1.14	0.024	0.026	0.011	0.003	0.015	0.009	0.10
14484	0.09	0.21	1.15	0.020	0.024	0.008	0.002	0.015	0.010	0.11
14486	0.09	0.20	1.13	0.018	0.022	0.010	0.002	0.015	0.009	0.10
14487	0.08	0.22	1.16	0.016	0.024	0.010	0.003	0.015	0.009	0.08
14488	0.08	0.21	1.14	0.020	0.025	0.008	0.003	0.015	0.009	0.10
14541	0.08	0.19	1.13	0.022	0.025	0.009	0.003	0.015	0.011	0.08
14542	0.08	0.19	1.13	0.022	0.025	0.009	0.003	0.015	0.011	0.08
14544	0.09	0.19	1.12	0.020	0.022	0.008	0.001	0.011	0.009	0.07
14545	0.08	0.20	1.11	0.025	0.022	0.009	0.002	0.012	0.009	0.08
14562	0.08	0.21	1.12	0.019	0.025	0.010	0.002	0.013	0.009	0.07
14563	0.09	0.19	1.15	0.022	0.023	0.010	0.002	0.013	0.009	0.12
14564	0.09	0.20	1.16	0.023	0.023	0.008	0.002	0.014	0.009	0.12

Z03 Works inspector
René Merbach

Z02 Sep 30, 2011



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Heat Analysis [%]
Heat No. Cu Ni

Heat No.	Cu	Ni
B07	C71	C72
max		
min		
14476	0.30	0.12
14480	0.31	0.13
14481	0.33	0.14
14483	0.31	0.14
14484	0.35	0.15
14486	0.37	0.15
14487	0.40	0.13
14488	0.34	0.24
14541	0.32	0.14
14542	0.32	0.14
14544	0.31	0.11
14545	0.35	0.12
14562	0.38	0.15
14563	0.38	0.17
14564	0.40	0.17

Tensile test

Heat No.	Yield stress [PSI]	Tensile strength [PSI]	Elongation 2 in [%]	Ys/Ts
B07	C11	C12	C13	C14

max				
min	50000	65000	21.0	
14476/1	54665	70905	40.9	0.77
14476/2	53795	72355	42.9	0.74
14480/1	53795	70905	35.6	0.76
14480/2	55100	73225	42.9	0.75
14481/1	53215	71050	39.6	0.75
14481/2	55100	72790	42.9	0.76
14483/1	53360	73370	40.9	0.73
14483/2	54810	73225	42.2	0.75
14484/1	53070	78300	34.3	0.68
14484/2	56840	73225	42.9	0.78
14486/1	53505	74820	35.6	0.72

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René Merbach

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3/3

A02

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A01

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B02

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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	50000	65000	21.0	
min				
14486/2	56550	73080	42.9	0.77
14487/1	52055	73370	34.3	0.71
14487/2	55535	72210	42.2	0.77
14488	51910	73660	37.0	0.70
14541/1	54955	71630	37.0	0.77
14541/2	55245	72790	42.9	0.76
14542/1	55970	73370	39.6	0.76
14542/2	55245	72790	42.9	0.76
14544/1	50445	75400	34.3	0.67
14544/2	53360	71920	43.6	0.74
14545/1	53795	74675	39.6	0.72
14545/2	53940	71920	43.6	0.75
14562	52635	71195	34.3	0.74
14563/1	53215	72935	39.6	0.73
14563/2	56695	73080	42.9	0.78
14564/1	54665	73660	34.3	0.74
14564/2	56695	72935	42.9	0.78

B14

Z03

Works inspector
René Merbach

Z02

Sep 30, 2011