



**STAHLWERK
THÜRINGEN**

A03 Certificate No. 2369/1-2013
Advice No. A13012 2

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A02 Test Report
according to ASTM A6

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



A04
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.: 2033217112
A07 Your Order No.: 163

B02 Quality: A36/A572 DUAL
according to: PRODUCED TO ASTM A36
AND ASTM A572 GRADE 50

Pos.	Heat No.	Dimension	Length	Pieces	Theoretical Weight
A10	B07	B01	B09	B08	B12
001	29751	C 10X15,3	480 in	108	29 982 kg
001	29752	C 10X15,3	480 in	324	89 946 kg
001	29753	C 10X15,3	480 in	87	24 152 kg
002	29734	C 10X20	480 in	140	50 800 kg
002	29735	C 10X20	480 in	210	76 200 kg
002	29736	C 10X20	480 in	56	20 320 kg
003	29913	C 12X20,7	480 in	42	15 774 kg
003	29914	C 12X20,7	480 in	154	57 838 kg
003	29915	C 12X20,7	480 in	224	84 128 kg
003	29916	C 12X20,7	480 in	56	21 032 kg
003	29917	C 12X20,7	480 in	84	31 548 kg

Heat Analysis [%]

Heat No.	C	Si	Mn	P	S	N	Nb	V
B07	C71	C72	C73	C74	C75	C76	C77	C78
max		0.40		0.040	0.050		0.050	
min							0.005	
29734	0.09	0.22	1.16	0.018	0.023	0.009	0.016	0.007
29735	0.07	0.19	1.11	0.018	0.021	0.005	0.011	0.006
29736	0.08	0.18	1.14	0.018	0.018	0.007	0.014	0.006
29751	0.08	0.20	1.13	0.021	0.024	0.007	0.012	0.006
29752	0.08	0.20	1.13	0.020	0.020	0.007	0.011	0.006
29753	0.08	0.19	1.13	0.015	0.025	0.009	0.013	0.008
29913	0.08	0.19	1.14	0.024	0.022	0.007	0.014	0.006
29914	0.08	0.19	1.13	0.023	0.026	0.008	0.011	0.006
29915	0.08	0.20	1.14	0.028	0.025	0.008	0.012	0.007
29916	0.08	0.19	1.14	0.023	0.025	0.007	0.013	0.006
29917	0.09	0.21	1.15	0.027	0.025	0.007	0.016	0.009

Z03 Works inspector
René Merbach

Z02 Jan 25, 2013



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A03 Certificate No. 2369/1-2013
Advice No. A130125

A02 Test Report
according to ASTM A6

A04
A06

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Tensile test Heat No.	Yield stress [PSI] C11	Tensile strength [PSI] C12	Elongation 2 in [%] C13	Ys/Ts C14
B07				
max		80000		
min	50000	65000	21.0	
29734/1	54375	76995	33.0	0.71
29734/2	57130	72645	42.9	0.79
29735/1	54230	74095	33.0	0.73
29735/2	52780	71340	43.6	0.74
29736/1	53940	74965	35.6	0.72
29736/2	53505	72210	43.6	0.74
29751/1	51040	72065	34.3	0.71
29751/2	54665	72065	43.6	0.76
29752/1	51620	71775	30.4	0.72
29752/2	54230	72500	42.9	0.75
29753/1	50605	72790	30.4	0.70
29753/2	54520	72935	43.6	0.75
29913/1	52345	71050	42.2	0.74
29913/2	54665	72500	42.9	0.75
29914/1	51910	68295	46.2	0.76
29914/2	53795	71920	43.6	0.75
29915/1	54085	69890	42.2	0.77
29915/2	54665	72210	42.2	0.76
29916/1	50170	66700	46.2	0.75
29916/2	54665	72355	43.6	0.76
29917/1	52345	72210	42.2	0.72
29917/2	56985	73660	42.9	0.77

Z01

- electric arc melting
- controlled rolled
- surface condition without complaint

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

Z03 Works inspector
René Merbach

Z02 Jan 25, 2013