



A03 Certificate No. 76/9-2013 1/3
Advice No. A130927057

A02 Test Report
according to ASTM A6

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

A04 (SWT)
A05
Plesa Anahuac y Cias, S.A. de C.V.
Colonia San Francisco Chilpan
Av. Valle de las Alamedas N°66-0
54940 Tultitlan
MEXICO

A08 Our Order No.: 2039137113
A07 Your Order No.: 16053

B02 Quality: A992 TRI
according to: ASTM A992 -
ASTM A572 GR50 - ASTM A36
FINE GRAIN SILICON KILLED

Pos.	Heat No.	Dimension	Length	Pieces	Theoretical Weight
A10	B07	B01	B09	B08	B12
001	37733	C 10X15,3	480 in	243	67 458 kg
001	37732	C 10X15,3	480 in	234	64 960 kg
001	37735	C 10X15,3	480 in	27	7 494 kg
001	37734	C 10X15,3	480 in	243	67 458 kg
002	37731	C 10X20	480 in	240	87 094 kg
002	37742	C 10X20	480 in	84	30 484 kg
002	37730	C 10X20	480 in	110	39 918 kg
003	37726	C 10X30	480 in	111	60 416 kg
004	37704	C 12X25	480 in	125	56 697 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			
37704	0.09	0.19	1.16	0.025	0.027	0.006	0.015	0.007	0.11	0.38
37726	0.08	0.17	1.15	0.023	0.028	0.009	0.015	0.007	0.09	0.38
37730	0.09	0.19	1.15	0.026	0.023	0.006	0.016	0.007	0.10	0.40
37731	0.09	0.19	1.15	0.026	0.023	0.006	0.016	0.007	0.10	0.40
37732	0.08	0.19	1.14	0.024	0.030	0.008	0.015	0.007	0.08	0.34
37733	0.09	0.19	1.16	0.021	0.028	0.006	0.015	0.006	0.09	0.38
37734	0.09	0.19	1.14	0.021	0.023	0.009	0.014	0.006	0.10	0.33
37735	0.09	0.19	1.15	0.020	0.024	0.008	0.012	0.006	0.09	0.40
37742	0.09	0.19	1.13	0.021	0.023	0.006	0.014	0.006	0.09	0.33

Heat Analysis [%]				
Heat No.	Ni	Mo	CEV1	Sn
B07	C81	C82	C83	C83
max	0.45	0.15	0.45	
min				
37704	0.15	0.03	0.35	0.016
37726	0.16	0.04	0.34	0.017
37730	0.14	0.03	0.34	0.017

Z03 Works inspector
René Merbach

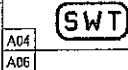
Z02 Sep 27, 2013



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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				
37731	0.14	0.03	0.34	0.017
37732	0.15	0.04	0.33	0.015
37733	0.14	0.03	0.34	0.016
37734	0.14	0.04	0.34	0.014
37735	0.15	0.02	0.34	0.016
37742	0.13	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	80000		0.85
min	50000	65000	21.0	
37704/1	52635	75545	38.3	0.70
37704/2	56115	73225	42.9	0.77
37726/1	54375	73660	40.9	0.74
37726/2	55245	72790	43.6	0.76
37730/1	53215	75255	38.3	0.71
37730/2	55970	72935	42.9	0.77
37731/1	51475	72210	42.2	0.71
37731/2	55970	72935	42.9	0.77
37732/1	53505	73225	40.9	0.73
37732/2	55100	72935	43.6	0.76
37733/1	51330	72065	43.6	0.71
37733/2	55390	72790	42.9	0.76
37734/1	53505	75110	38.3	0.71
37734/2	55100	73225	42.9	0.75
37735	52490	74385	39.6	0.71
37742/1	54665	73805	42.2	0.74
37742/2	54665	72790	43.6	0.75

Z03 Works inspector
René Merbach

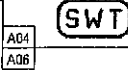
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FINE GRAIN SILICON KILLED

- B14
- 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 Sep 27, 2013