



**STAHLWERK
THÜRINGEN**

Certificate No. 2581/4-2014

1/3

Advice No. A140429020

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°66-0
54940 Tultitlan
MEXICO

A08 Our Order No.: 2044644114
A07 Your Order No.: PO#17973

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	44745	C 10X15,3	480 in	178	49 408 kg
001	44759	C 10X15,3	480 in	42	11 658 kg
002	44739	C 10X20	480 in	160	58 064 kg
002	44740	C 10X20	480 in	70	25 403 kg
003	44736	C 10X25	480 in	70	31 752 kg
003	44737	C 10X25	480 in	20	9 072 kg
004	44729	C 12X20,7	480 in	60	22 536 kg
004	44730	C 12X20,7	480 in	130	48 828 kg
004	44731	C 12X20,7	480 in	140	52 584 kg
005	44716	C 12X25	480 in	70	31 752 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			
44716	0.09	0.19	1.12	0.020	0.018	0.008	0.016	0.007	0.08	0.30
44729	0.08	0.20	1.13	0.019	0.023	0.008	0.016	0.007	0.10	0.27
44730	0.09	0.20	1.15	0.017	0.020	0.007	0.015	0.007	0.08	0.32
44731	0.09	0.19	1.12	0.020	0.018	0.008	0.016	0.007	0.08	0.30
44736	0.10	0.19	1.13	0.021	0.022	0.008	0.016	0.008	0.12	0.31
44737	0.10	0.20	1.13	0.024	0.023	0.008	0.016	0.008	0.12	0.32
44739	0.09	0.19	1.13	0.023	0.022	0.009	0.016	0.007	0.11	0.30
44740	0.08	0.20	1.12	0.030	0.031	0.009	0.016	0.007	0.09	0.45
44745	0.09	0.19	1.13	0.018	0.027	0.009	0.015	0.007	0.09	0.34
44759	0.09	0.19	1.15	0.025	0.026	0.009	0.012	0.008	0.14	0.36

Z03 Works inspector
René Merbach

Z02 Apr 29, 2014



STAHLWERK THÜRINGEN

Certificate No. 2581/4-2014

2/3

Advice No. A140429020

A02 Test Report

according to ASTM A6



A04
A06

Plesa Anahuac y Cias, S.A. de C.V.
Colonia San Francisco Chilpan
Av. Valle de las Alamedas N°66-O
54940 Tultitlan
MEXICO

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

A08 Our Order No.: 2044644114
A07 Your Order No.: PO#17973

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

Heat Analysis [%]

Heat No.	Ni	Mo	CEV1	Sn
[B07]	[C71]	[C72]	[C93]	[C73]
max	0.45	0.15	0.45	
min				
44716	0.14	0.03	0.33	0.013
44729	0.15	0.04	0.33	0.023
44730	0.14	0.03	0.34	0.015
44731	0.14	0.03	0.33	0.013
44736	0.18	0.04	0.35	0.013
44737	0.16	0.04	0.35	0.015
44739	0.18	0.04	0.34	0.021
44740	0.22	0.03	0.33	0.018
44745	0.15	0.04	0.33	0.019
44759	0.21	0.07	0.36	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	
44716/1	53795	73080	39.6	0.74
44716/2	55825	73225	42.9	0.76
44729/1	50605	71775	39.6	0.71
44729/2	55825	73805	42.2	0.76
44730/1	53360	71195	43.6	0.75
44730/2	55680	73080	43.6	0.76
44731/1	54230	72645	39.6	0.75
44731/2	55825	73225	42.9	0.76
44736/1	51040	73805	38.3	0.69
44736/2	57420	74095	42.9	0.77
44737	53215	75690	38.3	0.70
44739/1	50880	72935	39.6	0.70
44739/2	50170	72935	39.6	0.69
44740/1	50720	72210	42.2	0.70
44740/2	50025	72210	42.2	0.69
44745/1	51765	71630	42.2	0.72

Z03 Works inspector
René Merbach

Z02 Apr 29, 2014



STAHLWERK THÜRINGEN

A03

Certificate No. 2581/4-2014

3 / 3

Advice No. A140429020

A02

Test Report

according to ASTM A6



A04

A06

Plesa Anahuac y Cias, S.A. de C.V.
 Colonia San Francisco Chilpan
 Av. Valle de las Alamedas N°66-O
 54940 Tultitlan
 MEXICO

A01

Stahlwerk Thüringen GmbH

A05

Quality Assurance Department
 Kronacher Straße 6
 07333 Unterwellenborn
 Germany

A08

Our Order No.: 2044644114

A07

Your Order No.: PO#17973

B02

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

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	
44745/2	55535	73080	43.6	0.76
44759/1	50690	67860	44.9	0.75
44759/2	54520	72355	42.2	0.75

Z01

- electric arc melting

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

Z03

Works inspector
 René Merbach

Z02

Apr 29, 2014