



**STAHLWERK  
THÜRINGEN**

A03

Certificate No. 2377/9-2012  
Advice No. A120926089

1/3

A02

Test Report

according to ASTM A6

47865

A01

Stahlwerk Thüringen GmbH

A05

Quality Assurance Department  
Kronacher Straße 6  
07333 Unterwellenborn  
Germany

A04



A06

Ferre Barniedo S.A. de C.V.  
Col. san Cristóbal  
Av. Revolucion N°81  
55024 Ecatepec  
MEXICO

A08

Our Order No.: 2029628112

A07

Your Order No.: TAC147

B02

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

Pos.	Heat No.	Dimension	Length	Pieces	Weight
A10	B07	B01	B09	B08	B13
001	25568	C 10X15,3	480 in	252	69 340 kg
001	25569	C 10X15,3	480 in	288	80 545 kg
001	25570	C 10X15,3	480 in	54	14 970 kg
002	25551	C 10X20	480 in	100	36 140 kg
002	25552	C 10X20	480 in	100	36 345 kg
002	25553	C 10X20	480 in	150	54 400 kg
002	25554	C 10X20	480 in	60	21 780 kg
002	25556	C 10X20	480 in	30	10 910 kg
003	25561	C 10X25	480 in	40	18 180 kg
003	25562	C 10X25	480 in	180	81 885 kg
004	25539	C 12X20,7	480 in	116	43 050 kg
004	25545	C 12X20,7	480 in	130	48 370 kg
004	25546	C 12X20,7	480 in	45	16 670 kg
005	25543	C 12X30	480 in	126	68 390 kg
005	25544	C 12X30	480 in	60	32 375 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		
25539	0.08	0.20	1.14	0.019	0.023	0.007	0.002	0.015	0.008	0.09
25543	0.08	0.20	1.15	0.014	0.025	0.009	0.003	0.014	0.008	0.07
25544	0.07	0.22	1.18	0.023	0.020	0.010	0.004	0.015	0.009	0.06
25545	0.08	0.21	1.18	0.028	0.030	0.009	0.003	0.015	0.009	0.08
25546	0.08	0.19	1.14	0.020	0.034	0.007	0.003	0.012	0.009	0.08
25551	0.09	0.22	1.15	0.017	0.024	0.009	0.003	0.015	0.008	0.09
25552	0.09	0.21	1.14	0.016	0.028	0.009	0.003	0.015	0.008	0.08
25553	0.09	0.20	1.18	0.016	0.026	0.006	0.003	0.014	0.009	0.07
25554	0.09	0.19	1.14	0.016	0.026	0.006	0.003	0.014	0.009	0.08
25556	0.07	0.21	1.14	0.015	0.019	0.006	0.002	0.012	0.009	0.07
25561	0.09	0.21	1.13	0.025	0.024	0.008	0.002	0.011	0.008	0.09
25562	0.07	0.21	1.14	0.015	0.019	0.006	0.002	0.013	0.009	0.07
25568	0.09	0.20	1.14	0.024	0.026	0.006	0.003	0.015	0.008	0.07
25569	0.08	0.21	1.16	0.026	0.024	0.007	0.003	0.015	0.008	0.08
25570	0.09	0.19	1.15	0.034	0.023	0.007	0.003	0.015	0.009	0.14

Z03

Works inspector  
René Merbach

Z02

Sep 27, 2012



# STAHLWERK THÜRINGEN

A03 Certificate No. 2377/9-2012  
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2/3

A02 Test Report

according to ASTM A6

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A04  
A05

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MEXICO

A06 Our Order No.: 2029628112  
A07 Your Order No.: TAC147

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

### Heat Analysis [%]

Heat No. Cu Ni  
B07 C71 C72

Heat No.	Cu	Ni
max		
min		
25539	0.30	0.14
25543	0.23	0.16
25544	0.26	0.17
25545	0.27	0.11
25546	0.29	0.13
25551	0.27	0.14
25552	0.26	0.14
25553	0.35	0.13
25554	0.33	0.15
25556	0.29	0.12
25561	0.38	0.15
25562	0.29	0.12
25568	0.29	0.13
25569	0.28	0.14
25570	0.35	0.17

### Tensile test (ISO6892-1: B20)

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

Heat No.	Yield stress [PSI]	Tensile strength [PSI]	Elongation 2 in [%]	Ys/Ts
max				
min	50000	65000	21.0	
25539/1	53070	71050	44.9	0.75
25539/2	55100	73225	42.9	0.75
25543/1	53070	70035	44.9	0.76
25543/2	55390	73370	42.9	0.75
25544/1	54520	71775	39.6	0.76
25544/2	55970	73080	42.9	0.77
25545/1	51330	69455	43.6	0.74
25545/2	54085	73370	42.2	0.74
25546/1	53505	71485	40.9	0.75
25546/2	53795	72500	42.9	0.74
25551/1	52780	72355	42.2	0.73

Z03 Works inspector  
René Merbach

Z02 Sep 27, 2012

2554



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THÜRINGEN**

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Certificate No. 2377/9-2012  
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3/3

A02

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A06

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MEXICO

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Your Order No.: TAC147

B02

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

Tensile test (ISO6892-1: B20)

Heat No.	Yield stress [PSI]	Tensile strength [PSI]	Elongation 2 in [%]	Ys/Ts
[B07]	[C11]	[C12]	[C13]	[C14]
max		65000	21.0	
min	50000			
25551/2	55825	73370	42.2	0.76
25552/1	54085	73370	39.6	0.74
25552/2	55970	73370	42.9	0.76
25553/1	52780	70180	44.9	0.75
25553/2	55100	72500	42.9	0.76
25554/1	51765	69310	46.2	0.75
25554/2	55390	72790	43.6	0.76
25556/1	52345	70470	44.9	0.74
25556/2	53650	72355	42.9	0.74
25561/1	53360	75255	39.6	0.71
25561/2	56405	72500	42.9	0.78
25562/1	52925	72210	39.6	0.73
25562/2	53650	72355	42.9	0.74
25568/1	52925	71485	43.6	0.74
25568/2	55245	73080	43.6	0.76
25569/1	53940	74965	39.6	0.72
25569/2	55680	73370	42.9	0.76
25570/1	54375	74530	40.9	0.73
25570/2	56405	73950	42.2	0.76

Z01

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

Z03. Works inspector  
René W. Ierbach

Z02 Sep 27, 2012