



**STAHLWERK  
THÜRINGEN**

A03 Certificate No. 2568/4-2014 1/3  
Advice No. A140429019

A02 Test Report  
according to ASTM A6

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

A04 **SWT**  
A06 Ferre Barniedo S.A. de C.V.  
Col. san Cristóbal  
Av. Revolucion N°81  
55024 Ecatepec  
MEXICO

A08 Our Order No.: 2044299114  
A07 Your Order No.: 600943

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	44759	C 10X15,3	480 in	162	44 973 kg
001	44760	C 10X15,3	480 in	162	44 970 kg
001	44761	C 10X15,3	480 in	234	64 961 kg
001	44762	C 10X15,3	480 in	171	47 471 kg
002	44740	C 10X20	480 in	84	30 480 kg
002	44741	C 10X20	480 in	182	66 040 kg
002	44770	C 10X20	480 in	35	12 700 kg
003	44723	C 12X20,7	480 in	140	52 580 kg
003	44724	C 12X20,7	480 in	112	42 064 kg
003	44725	C 12X20,7	480 in	98	36 806 kg
003	44726	C 12X20,7	480 in	80	30 046 kg
004	44715	C 12X25	480 in	100	45 360 kg
004	44716	C 12X25	480 in	120	54 432 kg
004	44717	C 12X25	480 in	22	9 979 kg
005	44638	C 15X33,9	480 in	21	12 918 kg
005	44639	C 15X33,9	480 in	91	55 978 kg
005	44640	C 15X33,9	480 in	51	31 371 kg
005	44642	C 15X33,9	480 in	6	3 690 kg

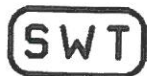
Heat Analysis [%]

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	
44638	0.09	0.19	1.13	0.020	0.026	0.007	0.015	0.007
44639	0.09	0.22	1.12	0.019	0.027	0.007	0.016	0.007
44640	0.09	0.18	1.14	0.019	0.026	0.008	0.016	0.007
44642	0.09	0.20	1.16	0.022	0.024	0.007	0.015	0.007
44715	0.10	0.20	1.15	0.019	0.021	0.007	0.015	0.007
44716	0.09	0.19	1.12	0.020	0.018	0.008	0.016	0.007
44717	0.09	0.20	1.18	0.019	0.023	0.007	0.017	0.007
44723	0.09	0.20	1.15	0.020	0.022	0.007	0.016	0.007
44724	0.08	0.20	1.16	0.021	0.024	0.008	0.016	0.007
44725	0.09	0.21	1.15	0.020	0.020	0.009	0.012	0.007
44726	0.08	0.19	1.15	0.023	0.022	0.009	0.012	0.007

Z03 Works inspector  
René Merbach

Z02 Apr 29, 2014

FERRE BARNIEDO S.A. DE C.V. ORIGINAL DE NUESTROS ARCHIVOS  
 LA REMISION DE NUESTROS ARCHIVOS  
 ventas@ferrebarniedo.com.mx



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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	
44740	0.08	0.20	1.12	0.030	0.031	0.009	0.016	0.007
44741	0.08	0.20	1.12	0.030	0.031	0.009	0.016	0.007
44759	0.09	0.19	1.15	0.025	0.026	0.009	0.012	0.008
44760	0.08	0.19	1.14	0.023	0.025	0.008	0.013	0.007
44761	0.08	0.19	1.12	0.024	0.024	0.008	0.013	0.007
44762	0.09	0.19	1.12	0.018	0.023	0.008	0.013	0.007
44770	0.08	0.18	1.12	0.018	0.026	0.008	0.015	0.007

Tensile test

Heat No.	Yield stress [PSI]	Tensile strength [PSI]	Elongation 2 in [%]	Ys/Ts
[B07]	[C11]	[C12]	[C13]	[C14]
max		80000		
min	50000	65000	21.0	
44638/1	52345	71920	42.2	0.73
44638/2	56115	72935	39.6	0.77
44639/1	52925	72790	43.6	0.73
44639/2	56985	73370	39.6	0.78
44640/1	55825	71485	42.2	0.78
44640/2	55970	73515	39.6	0.76
44642	53505	70180	43.6	0.76
44715/1	51620	68585	44.9	0.75
44715/2	56115	73225	43.6	0.77
44716/1	53795	73080	39.6	0.74
44716/2	55825	73225	42.9	0.76
44717	53360	72210	39.6	0.74
44723/1	53215	74385	38.3	0.72
44723/2	56550	73660	42.9	0.77
44724/1	53070	74675	38.3	0.71
44724/2	56260	73660	42.9	0.76
44725/1	50895	70325	43.6	0.72
44725/2	55825	72645	42.9	0.77
44726/1	50170	71050	43.6	0.71

Z03 Works inspector  
René Merbach

Z02 Apr 29, 2014

FERRE BARNIEDO S.A. DE C.V.  
 ESTE ORIGINAL DE LA REMISION DE MESTROS COPIA DE C.V.  
 AMPARA LA ORIGINAL DE LA REMISION DE MESTROS COPIA DE C.V.  
 TEL 58-36-10-00  
 ventas@ferrebarniedo.com.mx



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Tensile test Heat No.	Yield stress [PSI] [C11]	Tensile strength [PSI] [C12]	Elongation 2 in [%] [C13]	Ys/Ts [C14]
max		80000		
min	50000	65000	21.0	
44726/2	54955	72790	43.6	0.75
44740/1	50720	72210	42.2	0.70
44740/2	50025	72210	42.2	0.69
44741/1	50025	71920	40.9	0.70
44741/2	58435	72355	42.9	0.81
44759/1	50690	67860	44.9	0.75
44759/2	54520	72355	42.2	0.75
44760/1	52445	70325	43.6	0.75
44760/2	50170	70325	43.6	0.71
44761/1	53505	74240	39.6	0.72
44761/2	55680	72065	43.6	0.77
44762/1	51445	67570	43.6	0.76
44762/2	50025	67570	43.6	0.74
44770/1	54230	72500	39.6	0.75
44770/2	55825	72790	43.6	0.77

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

FERRE BARNIEDO S.A. DE C.V.  
 ESTE ES UN ORIGINAL  
 PARA NUESTROS ARCHIVOS,  
 TEL: 58-3610-00  
 REMISION NUESTROS ARCHIVOS,  
 ventas@ferrebarniedo.com.mx