



Certificate Nr 1186/5-2004
Advice Nr A0705040

Stahlwerk Thüringen GmbH
Postfach 1163
07331 Unterwellenborn
Germany

8221

Dr. J. Domingo Bances P.

Order Nr: 1700002029
Customer Nr: FERRE BARNIEDO

Arcelor International America, LLC
Mill business, Long Products
350 Hudson Street
USA-10014 NEW YORK

Quality: A992 DUAL
according to: ASTM A992/98 - A572 GR50
PER AISC TB3 - ASTM A572/97C GR50
FINE GRAIN SILICON KILLED

Inspection certificate

ASTM A6 par18.

CA25930

Lot Nr	Heat Nr	Dimension	Length	Pieces	Weight [t]	Customer Nr
002	13535	C 10X20	40'	108	39.191	
	13536	C 10X20	40'	24	8.709	

Heat Analysis [%]											
Heat Nr	C	Si	Mn	P	S	N	Nb	V	Cr	Cu	
	max 0.23	0.40	1.50	0.035	0.045	0.012	0.050	0.110	0.35	0.60	
	min 0.10	0.10	0.50				0.005				
13535	0.08	0.21	1.14	0.016	0.025	0.005	0.013	0.009	0.09	0.30	
13536	0.08	0.21	1.14	0.016	0.025	0.005	0.013	0.009	0.09	0.30	

Heat Analysis [%]				
Heat Nr	Ni	Mo	CEV1	Sn
	max 0.45	0.15	0.45	
	min 0.17	0.03	0.33	0.015
13535	0.17	0.03	0.33	0.015
13536	0.17	0.03	0.33	0.015

Heat Nr	Tensile test		Tensile strength [PSI]	Elongation 50 mm [%]
	Yield stress [PSI]			
	max 65000			
	min 50000		65000	21.0
13535	51040		71775	34.3
13536	52490		70615	35.6

Renate Schmidt
Works inspector

2004-05-10

