



Certificate Nr 1152/5-2004

Advice Nr A0705033

8198

Stahlwerk Thüringen GmbH
Postfach 1163
07331 Unterwellenborn
Germany

Order Nr: 1700002029
Customer Nr: FERRE BARNIEDO

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.

Arcelor International America, LLC
Mill business, Long Products
350 Hudson Street

USA-10014 NEW YORK

Lot Nr	Heat Nr	Dimension	Length	Pieces	Weight [t]	Customer Nr
01	13543	C 10X15,3	40'	96	26.650	
001	13544	C 10X15,3	40'	112	31.092	

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 0.07	0.10	0.50				0.005			
13543	0.07	0.20	1.14	0.026	0.024	0.008	0.015	0.009	0.10	0.33
13544	0.10	0.20	1.16	0.021	0.026	0.009	0.015	0.008	0.08	0.35

Heat Analysis [%]				
Heat Nr	Ni	Mo	CEV1	Sn
	max 0.45	0.15	0.45	
	min 0.12	0.03	0.32	0.017
13543	0.12	0.03	0.32	0.017
13544	0.17	0.04	0.36	0.016

Tensile test			
Heat Nr	Yield stress [PSI]	Tensile strength [PSI]	Elongation 50 mm [%]
	max 65000		
	min 50000	65000	21.0
13543	54375	73080	32.0
13544	57565	73080	33.0

Renate Schmidt
Works inspector

2004-05-10

