GERDAU
CARTERSVILLE STEEL MILL
384 OLD GRASSDALE RD NE
CARTERSVILLE GA 30121 USA

Chemical and Physical Test Report

Made and Melted In USA

CUSTOMER: SIDERTUL SA DE CV

SHAPE + SIZE	GRADE	SPECIFICATION	SALES ORDER	CUST P.O. NUMBER
A6 X 4 X 1/2	A36/44/572	ASTM A36-08, ASTM A572 GR50-07,CSA G40.21-04 44W, ASTM A709 GR50-10		

HEAT I.D.	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	V	Nb	B	N	Sn	Al	Ti	Ca	Zn	C Eqv
G113212	.16	1.01	.014	.027	.21	.30	.10	.07	.029	.015	<.008	.0005	.0100	.010	.001	.00100	.00000	.00180	.4

Mechanical Test: Yield 56000 PSI, 386.11 MPA Tensile: 78400 PSI, 540.55 MPA %El: 22.4/8in, 22.4/200MM
Customer Requirements CASTING: STRAND CAST
Mechanical Test: Yield 53500 PSI, 368.87 MPA Tensile: 73300 PSI, 505.39 MPA %El: 20.6/8in, 20.6/200MM
Customer Requirements CASTING: STRAND CAST

SHAPE + SIZE	GRADE	SPECIFICATION	SALES ORDER	CUST P.O. NUMBER
A6 X 4 X 1/2	A36/44/572	ASTM A36-08, ASTM A572 GR50-07,CSA G40.21-04 44W, ASTM A709 GR50-10		

HEAT I.D.	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	V	Nb	B	N	Sn	Al	Ti	Ca	Zn	C Eqv
G113213	.18	1.02	.017	.030	.23	.32	.10	.08	.032	.017	.001	.0005	.0097	.011	.001	.00100	.00020	.00260	.44

Mechanical Test: Yield 53500 PSI, 368.87 MPA Tensile: 76300 PSI, 526.07 MPA %El: 21.2/8in, 21.2/200MM
Customer Requirements CASTING: STRAND CAST
Mechanical Test: Yield 58300 PSI, 401.96 MPA Tensile: 77100 PSI, 531.59 MPA %El: 21.4/8in, 21.4/200MM
Customer Requirements CASTING: STRAND CAST

All manufacturing processes including melt and cast, occurred in USA. MTR complies with EN10204 3.1B

Bhaskar Yalamanchili
Quality Director
Gerdau

THE ABOVE FIGURES ARE CERTIFIED CHEMICAL AND PHYSICAL TEST RECORDS AS CONTAINED IN THE PERMANENT RECORDS OF COMPANY.

Metallurgical Services Manager
CARTERSVILLE STEEL MILL

Seller warrants that all material furnished shall comply with specifications subject to standard published manufacturing variations. NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, ARE MADE BY THE SELLER, AND SPECIFICALLY EXCLUDED ARE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.
In no event shall seller be liable for indirect, consequential or punitive damages arising out of or related to the materials furnished by seller.
Any claim for damages for materials that do not conform to specifications must be made from buyer to seller immediately after delivery of same in order to allow the seller the opportunity to inspect the material in question.