



US-ML-CHARLOTTE
6601 LAKEVIEW ROAD
CHARLOTTE, NC 28269
USA

CERTIFIED MATERIAL TEST REPORT

				GRADE GGMULTI	SHAPE / SIZE Angle / 2X1 1/2X3/16		DOCUMENT ID: 0000152340
				LENGTH 20'00"		WEIGHT 2,968 LB	HEAT / BATCH 54191681/05
	SALES ORDER 12478151/000010		CUSTOMER MATERIAL N° 000000050200116620		SPECIFICATION / DATE or REVISION ASTM A529-14, A572-15 ASTM A6-17,A36-14, ASME SA-36 ASTM A709-18, AASHTO M270-15 CSA G40.20-13/G40.21-13		
	CUSTOMER PURCHASE ORDER NUMBER EG00000685		BILL OF LADING 1321-0000106937				

CHEMICAL COMPOSITION										
C (%)	Mn (%)	P (%)	S (%)	Si (%)	Cu (%)	Ni (%)	Cr (%)	Mo(%)	V (%)	Nb (%)
0.14	0.65	0.014	0.034	0.18	0.36	0.13	0.14	0.030	0.004	0.007

MECHANICAL PROPERTIES										
Elong. (%)		G/L (Inches)	UTS (PSI)		UTS (MPa)		YS (PSI)		YS (MPa)	
27.50		8.000	75491		521		56971		393	
30.00		8.000	74534		514		55414		382	

GEOMETRIC CHARACTERISTICS										
R:R										
40.00										

COMMENTS / NOTES										
This grade meets the requirements for the following grades: ASTM Grades: A36; A529-50; A572-50; A709-36; A709-50 CSA Grades: 44W; 50W AASHTO Grades: M270-36; M270-50 ASME Grades: SA36										

The above figures are certified chemical and physical test records as contained in the permanent records of the company. We certify that these data are correct and in compliance with specified requirements. No weld repair was performed on this material. The material has not been in contact with mercury while in Gerdau possession. For all products other than billets or beam blanks, this material was produced (Electric Arc Furnace, Melted, Continuously Cast, Hot Rolled and, if applicable, Cold-Drawn) in the USA. For billets or beam blanks, this material was produced (Electric Arc Furnace, Melted and Continuously Cast) in the USA. CMTR complies with EN 10204 3.1.


BHASKAR YALAMANCHILI
QUALITY DIRECTOR
Phone: (409) 267-1071 Email: Bhaskar.Yalamanchili@gerdau.com


RACHEL WARREN
QUALITY ASSURANCE MGR.
Phone: (704) 596-0361 EX3039 Email: Rachel.Webster@gerdau.com