



CERTIFIED MATERIAL TEST REPORT

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

		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	DATE 12/15/2022		

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 Gerdaу 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
 BHASKAR YALAMANCHILI
 QUALITY DIRECTOR

Phone: (409) 267-1071 Email: Bhaskar.Yalamanchili@gerdau.com

Rachel Warren
 RACHEL WARREN
 QUALITY ASSURANCE MGR.

Phone: (704) 596-0361 EX3039 Email: Rachel.Webster@gerdau.com