



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

**CERTIFIED MATERIAL TEST REPORT**

<b>CUSTOMER SHIP TO</b> STEEL AND PIPE LONGVIEW, TX 75604-4817 USA		<b>CUSTOMER BILL TO</b> S MANHATTAN, KS 66505-1688 USA		<b>GRADE</b> GGMULTI	<b>SHAPE / SIZE</b> Angle / 2X1 1/2X1/4	<b>DOCUMENT ID:</b> 0000170002
<b>SALES ORDER</b> 13363773/000010		<b>CUSTOMER MATERIAL N°</b> 000000050200116820		<b>LENGTH</b> 20'00"	<b>WEIGHT</b> 3.047 LB	<b>HEAT / BATCH</b> 54198178/03
<b>CUSTOMER PURCHASE ORDER NUMBER</b> EG00007438			<b>BILL OF LADING</b> 1321-0000115581	<b>DATE</b> 10/27/2023	<b>SPECIFICATION / DATE or REVISION</b> 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	

CHEMICAL COMPOSITION										
C (%)	Mn (%)	P (%)	S (%)	Si (%)	Cu (%)	Ni (%)	Cr (%)	Mo (%)	V (%)	Nb (%)
0.10	0.72	0.015	0.046	0.27	0.42	0.12	0.19	0.040	0.002	0.008

MECHANICAL PROPERTIES						
Elong. (%)	G/L (Inches)	UTS (PSI)	UTS (MPa)	YS (PSI)	YS (MPa)	
28.80	8.000	71260	491	53827	371	
30.60	8.000	71706	494	53054	366	

GEOMETRIC CHARACTERISTICS	
R-R	
31.00	

**COMMENTS / NOTES**

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

Gerdau's steel is 100% recyclable. Support the circular economy through our Metals Recycling Partnership. For details, visit [www2.gerdau.com/metals-recycling](http://www2.gerdau.com/metals-recycling), or contact [metalsrecycling@gerdau.com](mailto:metalsrecycling@gerdau.com).

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

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