



CERTIFIED MATERIAL TEST REPORT

US-ML-JACKSON TN
 801 GERDAU AMERISTEEL ROAD
 JACKSON, TN 38305
 USA

| | | |
|---|---------------------------------|-----------------------------|
| GRADE GGMULTI | SHAPE / SIZE Angle / 5X3X3/8 | DOCUMENT ID: 0000410451 |
| LENGTH 20'00" | WEIGHT 14,700 LB | HEAT / BATCH 63213054/09 |
| SPECIFICATION / DATE or REVISION ASTM A529-19, A572-21 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 4500511877 | BILL OF LADING 1333-0000180893 | DATE 10/21/2021 |
|--|-----------------------------------|--------------------|

| CHEMICAL COMPOSITION | | | | | | | | | | | | | |
|----------------------|--------|-------|-------|--------|--------|--------|--------|-------|-------|--------|--------|--------------|--------|
| C (%) | Mn (%) | P (%) | S (%) | Si (%) | Cu (%) | Ni (%) | Cr (%) | Mo(%) | V (%) | Nb (%) | Al (%) | CEqvA529 (%) | Sn (%) |
| 0.14 | 0.77 | 0.012 | 0.023 | 0.21 | 0.30 | 0.09 | 0.14 | 0.020 | 0.003 | 0.007 | 0.000 | 0.37 | 0.010 |

| MECHANICAL PROPERTIES | | | | | | | |
|-----------------------|--------------|----------|-----------|-----------|----------|----------|--|
| Elong. (%) | G/L (Inches) | G/L (mm) | UTS (PSI) | UTS (MPa) | YS (PSI) | YS (MPa) | |
| 29.00 | 8.000 | 200.0 | 72608 | 501 | 53808 | 371 | |
| 32.00 | 8.000 | 200.0 | 73366 | 506 | 55592 | 383 | |

| GEOMETRIC CHARACTERISTICS | |
|---------------------------|--|
| R:R | |
| 12.06 | |

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

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

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. This material, including the billets, was produced (Electric Arc Furnace melted, Continuously cast, and/or Hot rolled) in the USA. CMTR complies with EN 10204 3.1.

Bhaskar
 BHASKAR YALAMANCHILI
 QUALITY DIRECTOR

Ben Lovell
 BEN LOVELL
 QUALITY ASSURANCE MGR.