



CERTIFIED MATERIAL TEST REPORT

US-ML-WILTON
1500-2500 WEST 3RD STREET
WILTON, IA 52778
USA

| | | | | | | |
|---|--|---|-----------------------------------|--------------------|--|-----------------------------|
| CUSTOMER SHIP TO S H C L | | CUSTOMER BILL TO S 5-1688 | | GRADE GGMULTI | SHAPE / SIZE Flat Bar / 5/8 X 1 1/2 | DOCUMENT ID: 0000148536 |
| SALES ORDER 12964616/000020 | | CUSTOMER MATERIAL N° 00000000102011620 | | LENGTH 20'00" | WEIGHT 4,591 LB | HEAT / BATCH 64973506/04 |
| CUSTOMER PURCHASE ORDER NUMBER 4500551727 | | | BILL OF LADING 1334-0000091341 | DATE 05/31/2023 | | |
| SPECIFICATION / DATE or REVISION ASME SA36, ASTM A529-14 ASTM A6-19, A36-19, A572-21 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 (%) | Sn (%) |
| 0.15 | 0.58 | 0.009 | 0.031 | 0.21 | 0.25 | 0.16 | 0.22 | 0.047 | 0.023 | 0.007 | 0.010 |

| MECHANICAL PROPERTIES | | | | | | |
|-----------------------|--------------|-----------|-----------|----------|----------|--|
| Elong. (%) | G/L (Inches) | UTS (PSI) | UTS (MPa) | YS (PSI) | YS (MPa) | |
| 22.50 | 8.000 | 74482 | 514 | 56719 | 391 | |
| 22.50 | 8.000 | 75470 | 520 | 56391 | 389 | |

| GEOMETRIC CHARACTERISTICS | |
|---------------------------|--|
| R/R | |
| 32.83 | |

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

Gerdaul's steel is 100% recyclable. Support the circular economy through our Metals Recycling Partnership. For details, visit www2.gerdau.com/metals-recycling, or contact 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 Gerdaul 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.

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