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| DOCUMENT ID: 0000917140 | SHAPE / SIZE Round Bar / 2" | GRADE GGMULTI |
| HEAT / BATCH 5805567005 | WEIGHT 5.981 LB | LENGTH 20'00" |
| SPECIFICATION / DATE of REVISION ASME SA36, ASTM A529-14 ASTM A6-14, A36-14 CSA G40.20-13/G40.21-13 | | |

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|---|-----------------------------------|
| CUSTOMER MATERIAL N° 00000000009020020 | SALES ORDER 12820223/000010 |
| DATE 03/28/2023 | BILL OF LADING 1327-0000520635 |

US-ML-MIDLOTHIAN
300 WARD ROAD
MIDLOTHIAN, TX 76065
USA

CUSTOMER PURCHASE ORDER NUMBER
4500548386

| CHEMICAL COMPOSITION | | P (%) | S (%) | Si (%) | Cu (%) | Ni (%) | Cr (%) | Mo(%) | V (%) | Nb (%) | Al (%) | Ti (%) | B (%) | Ca (%) | N (%) | Pb (%) |
|----------------------|------|-------|-------|--------|--------|--------|--------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| C (%) | 0.15 | 0.68 | 0.010 | 0.036 | 0.23 | 0.14 | 0.17 | 0.038 | 0.035 | 0.012 | 0.000 | 0.002 | 0.0000 | 0.0018 | 0.0106 | 0.0000 |

| CHEMICAL COMPOSITION | | Zn (%) | Co (%) | CEq _{A529} (%) | CEq _{A6} (%) | Sn (%) |
|----------------------|-------|--------|--------|-------------------------|-----------------------|--------|
| Sb (%) | 0.003 | 0.005 | 0.005 | 0.38 | 0.34 | 0.007 |


| MECHANICAL PROPERTIES | | G/L (Inches) | G/L (mm) | UTS (PSI) | UTS (MPa) | YS (PSI) | YS (MPa) |
|-----------------------|-------|--------------|----------|-----------|-----------|----------|----------|
| Elong. (%) | 26.20 | 2.000 | 200.0 | 77493 | 534 | 57971 | 400 |
| DimnWght | 25.90 | 2.000 | 200.0 | 77711 | 536 | 58135 | 401 |


GEOMETRIC CHARACTERISTICS
DimnWght
OK

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


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 QUALITY ASSURANCE MGR.

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