

CERTIFIED MATERIAL TEST REPORT

DOCUMENT ID: 0000531025	SHAPE / SIZE Flat Bar / 1/4 X 4 1/2
HEAT / BATCH 63224475/03	WEIGHT 4,826 LB
GRADE GGMULTI	LENGTH 20'00"

SPECIFICATION / DATE of 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 MATERIAL N°
 SALES ORDER
 12836534/000010

CUSTOMER PURCHASE ORDER NUMBER
 SSW134832

BILL OF LADING
 1333-0000212970

DATE
 04/05/2023

C (%)	0.14	C (%)	0.001	AI (%)	0.001	Nb (%)	0.007	V (%)	0.003
Mn (%)	0.74	CE _{TOTAL} (%)	0.37	YS (PSI)	56852	Sn (%)	0.010	Mo (%)	0.027
P (%)	0.015	YS (MPa)	392	Cr (%)	0.22	UTS (MPa)	550	Cu (%)	0.31
S (%)	0.024	YS (PSI)	57393	Ni (%)	0.12	UTS (MPa)	552	Si (%)	0.18
G/L (Inches)	8.000	UTS (PSI)	79702	Ni (%)	0.12	G/L (mm)	200.0	S (%)	0.024
Elong. (%)	26.00	UTS (PSI)	80000	Cu (%)	0.31	200.0	200.0	P (%)	0.015
	26.00			Cr (%)	0.22			S (%)	0.024

MECHANICAL PROPERTIES
 KtR
 30.86

GEOMETRIC CHARACTERISTICS
 KtR
 30.86

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 Gerdaun 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

Ben Lovell
 BEN LOVELL
 QUALITY ASSURANCE MGR.

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

Phone: (731) 423-5213 Email: benjamin.lovell@gerdaun.com