



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

CERTIFIED MATERIAL TEST REPORT

HOUSTON, TX 77029-3613 USA		HOUSTON, TX 77029 USA		GRADE GGMULTI	SHAPE / SIZE Flat Bar / 3/8 X 1 1/4	DOCUMENT ID: 0000152552
SALES ORDER 12511755/000010		CUSTOMER MATERIAL N°		LENGTH 20'00"	WEIGHT 9,564 LB	HEAT / BATCH 54192289/02
CUSTOMER PURCHASE ORDER NUMBER SSW132447		BILL OF LADING 1321-0000107080		SPECIFICATION / DATE OF REVISION ASME SA36, ASTM A529-14 ASTM A6-17, A36-14, A572-15 ASTM A709-18, AASHTO M270-15 CSA G40.20-13/G40.21-13		
		DATE 12/20/2022				

CHEMICAL COMPOSITION		P (%)	S (%)	Si (%)	Cu (%)	Ni (%)	Cr (%)	Mo(%)	V (%)	Nb (%)
C (%)	0.13	0.62	0.033	0.19	0.41	0.10	0.16	0.020	0.003	0.007

MECHANICAL PROPERTIES		G/L (Inches)	UTS (PSI)	UTS (MPa)	YS (PSI)	YS (MPa)
Elong. (%)	22.50	8.000	73904	510	53756	371
	22.50	8.000	74387	513	53356	368

GEOMETRIC CHARACTERISTICS
 R.R
 53.00

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
 BHASKAR YALAMANCHILI
 QUALITY DIRECTOR

Rachel Warren
 RACHEL WARREN
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CERTIFIED MATERIAL TEST REPORT

8415 CLINTON DR HOUSTON, TX 77029-3613 USA		8415 CLINTON DRIVE HOUSTON, TX 77029 USA		GRADE GGMULTI	SHAPE / SIZE Flat Bar / 3/8 X 1 1/4	DOCUMENT ID: 0000152550
SALES ORDER 12459878/000030		CUSTOMER MATERIAL N°		LENGTH 20'00"	WEIGHT 4,782 LB	HEAT / BATCH 54192289/02
CUSTOMER PURCHASE ORDER NUMBER SSW132136		BILL OF LADING 1321-0000107080	DATE 12/20/2022	SPECIFICATION / DATE of REVISION ASME SA36, ASTM A529-14 ASTM A6-17, A36-14, A572-15 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 (%)
0.13	0.62	0.011	0.033	0.19	0.41	0.10	0.16	0.020	0.003	0.007

MECHANICAL PROPERTIES			
Elong. (%)	G/L (Inches)	UTS (PSI)	UTS (MPa)
22.50	8.000	73904	510
22.50	8.000	74387	513
		YS (PSI)	YS (MPa)
		371	371
		368	368

GEOMETRIC CHARACTERISTICS	
R:R	Value
R:R	53.00

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

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