



US-ML-CALVERT CITY  
1035 SHAR-CAL ROAD  
CALVERT CITY, KY 42029  
USA

# CERTIFIED MATERIAL TEST REPORT

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CUSTOMER SHIP TO SERVICE STEEL WAREHOUSE MIDWES NA RAILINC 26481788 SUB 8001 HAMMOND, IN 46327 USA	CUSTOMER BILL TO SERVICE STEEL WAREHOUSE CO L P 8415 CLINTON DRIVE HOUSTON, TX 77029 USA	GRADE A36/44W/A572-50	SHAPE / SIZE Angle / 8X4X1/2
SALES ORDER 1170656/000100	CUSTOMER MATERIAL N°	LENGTH 40'00"	WEIGHT 9,408 LB
		HEAT / BATCH 55035849/02	
SPECIFICATION / DATE or REVISION A529-05(2009), A572-13A A6-13A, A36-12, ASME SA-36 A709-13A, AASHTO M270-12 CSA-G40.21-04(2013)			

CUSTOMER PURCHASE ORDER NUMBER  
SSW075327

BILL OF LADING  
1322-0000011278

DATE  
10/30/2014

CHEMICAL COMPOSITION												
C %	Mn %	P %	S %	Si %	Cr %	Ni %	Cr %	Mo %	V %	Nb %	N %	Pb %
0.14	0.85	0.015	0.020	0.23	0.33	0.12	0.07	0.031	0.018	0.001	0.0080	0.0020

CHEMICAL COMPOSITION	
Sn %	0.014

MECHANICAL PROPERTIES							
Elong. %	G/L Inch	UTS PSI	UTS MPa	YS PSI	YS MPa		
26.00	8.000	73860	509	53980	372		
25.00	8.000	73700	508	52920	365		

GEOMETRIC CHARACTERISTICS	
CSA Squa	0.760
	0.765

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 company. We certify that these data are correct and in compliance with specified requirements. This material, including the billets, was melted and manufactured in the USA. CMTR complies with EN 10204 3.1.

*Bhaskar*  
BHASKAR YALAMANCHILI  
QUALITY DIRECTOR

*Michael Herndon*  
MICHAEL HERNDON  
QUALITY ASSURANCE MGR.