



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

CERTIFIED MATERIAL TEST REPORT

CUSTOMER SHIP TO		CUSTOMER BILL TO		GRADE	SHAPE / SIZE
				A36/A4W/A572-50	Angle / 8X4X12
SALES ORDER		CUSTOMER MATERIAL N°		LENGTH	WEIGHT
2098401/010030				4000"	18,816 LB
CUSTOMER PURCHASE ORDER NUMBER		BILL OF LADING		SPECIFICATION / DATE or REVISION	
DHO-142668		1322-0000015499		A6-13A, A36-12, ASME SA36-13 ASTM A529-09(2009), A572-13A ASTM A709-13A, AASHTO M270-12 CSA G40-20-13G40-21-13	
		DATE			
		07/17/2015			

CHEMICAL COMPOSITION		C	Mn	P	S	Si	Al	Ni	Cr	Mo	N	NP	N	Pb
		%	%	%	%	%	%	%	%	%	%	%	%	%
CHEMICAL COMPOSITION		0.15	0.88	0.018	0.028	0.25	0.35	0.10	0.06	0.036	0.021	0.002	0.0090	0.00250
CHEMICAL COMPOSITION		0.014												

MECHANICAL PROPERTIES		Yield	UTS	YS	YS
		MPa	MPa	ksi	ksi
Elong.		25.00	8.000	75400	53330
		24.00	8.000	74390	53240
UTS		520	513	367	367

GEOMETRIC CHARACTERISTICS		CSA	SA36	SA36
		Min	Max	Max
CSA		0.791		
SA36		0.791		

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.

Shackey
 BHASKAR VALAMANCHILI
 QUALITY DIRECTOR

Miller
 MICHAEL HERRICK
 QUALITY ASSURANCE MGR