



2601 S. County Road 700 East
Columbia City, Indiana 46725
(260) 625-8100 (260) 625-8950 FAX

Quality Steel 100% EAF Melted and Manufactured in the USA
ISO 9001:2015 and ABS Certified
CMTR complies with EN 10204 3.1.

CERTIFIED MILL TEST REPORT

Customer # 000058

S Longview/Greggton Station
Track #746
Longview TX, 75604 US
Attn: Receiving

555 Poyntz Avenue
PO Box 1688
Manhattan KS, 66505 US

Printed: 09 / 01 / 2022
Produced: 08 / 06 / 2022

GENERAL INFORMATION		SPECIFICATIONS		SHIPMENT DETAILS	
Product	Wide Flange Beam	Standards	A992 / A992M	Bundle / ASN #	Job/Ref
Size	W10X45	» ASTM A992/A992M - 20	A992 / A992M	Length	Cust PO
Heat Number	B215570	ASTM A6/A6M - 21	A572 gr50/gr345	pcs	Job/Ref
Condition(s)	As-Rolled	ASTM A572/A572M - 21	A709 gr50/gr345	4	4500535403
	Fine Grained	ASTM A709/A709M - 21	M270 gr345/gr50	4	4500535403
	Fully Killed	AASHTO M270M/M270 - 20	50WM/345WM		
	No Weld Repair	CSA G40.21-13	A36 / A36M		
		ASTM A36/A36M - 19			

*SDI-MULTI meets the requirements of ASTM A992, A572-50, A709-50, A529-50, A36 and A709-36; AASHTO M270-50 and M270-36; CSA 300W, 345W and 350W.

CHEMICAL ANALYSIS (weight percent)

C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Sn	V	Nb/Cb	Al	N	B	*CE1	*CE2	*CE3	*I	Analysis Type
.06	1.23	.016	.016	.23	.34	.10	.16	.03	.018	.033	<.001	.003	.0077	.0004	.34	.377	.29	5.89	Heat

MECHANICAL TESTING

Test	Yield (fy)		Tensile Strength		Elong. ratio	% Elong. {8" gage}
	ksi / MPa	ksi / MPa	ksi / MPa	ksi / MPa		
1	56 / 385	73 / 505	73 / 505	73 / 505	.76	28
2	57 / 395	73 / 505	73 / 505	73 / 505	.78	28
3						
4						

CHARPY IMPACT TESTS (available only when specified at time of order)

Test	Temp F / C	Absorbed Energy ft-lbf / J		
		Specimen 1	Specimen 2	Specimen 3
1				
2				
3				
4				
5				
6				
7				

Notes: *Calculated Chemistry Values: Carbon Equivalents (C1, C2, C3, PC), Corrosion Index (I) {ASTM G101} = 26.01(Cu)+1.20(Cr)+1.49(Si)+17.28(P)+7.29(Cu)(Ni)-9.10(Ni)(P)-33.39(Cu)²
CE1 (IIV)₂=C+Mn/6+(Cr+Mo+V)/5+(Ni+Cu)/15 CE2 (AWS)=C+(Mn+Si)/6+(Cr+Mo+V)/5+(Ni+Cu)/15 CE3 (CET) = C + (Mn/6) + (Si/24) + (Cr/5) + (Ni/40) + (Mo/4) + (V/14)

I hereby certify that the material described herein has been made to the applicable specification by the electric arc furnace/continuous cast process and tested in accordance with the requirements of American Bureau of Shipping Rules with satisfactory results.
Signed:

ABS CERTIFICATION

I hereby certify that the content of this report are accurate and correct. All tests and operations performed by this material manufacturer are in compliance with the requirements of the material specifications and applicable purchaser designated requirements.

State of Indiana, County of Whitley Sworn to and subscribed before me
this _____ day of _____

Signed: **Valoree Varick**

Valoree Varick

Signed: _____
Notary Public

My commission expires: _____

Form F-6100-002-054 rev 8 Quality Manager

ASTM A6 - 14.6: A signature is not required on the test report; however, the document shall clearly identify the organization submitting the report. Notwithstanding the absence of a signature, the organization submitting the report is responsible for the content of the report