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CERTIFIED MATERIAL TEST REPORT

Hackney

Fitting and Flange Group  
Trinity Industries Inc.

Flo-Bend

P.O. Box 568887 - 2525 Stemmons Freeway - Dallas, TX 75356-8887  
Phone: (214)589-8177 Fax: (214)589-8892

Order Number:

Date: 04/14/97

Sold To:

**PETRO WORLD, INC.**

Ship To:

7027 Belgoid, Suite C  
Houston, TX 77066

(281) 580-1445 • Fax (281) 580-8542

Heat Code	Description / Specifications
MLA1	1.5" X 1" XS RED TEE A/SA 234-94 WPB, NACE MR0175 A106B 33 / 619884 STRESS RELIEVED AT 1200 F

Chemical Analysis

Heat Code	C	Mn	P	S	Si	Cr	Mo	Cu	Ni
MLA1	.160	.680	.014	.011	.210	.040	.020	.180	.080

Chemical Analysis (cont.)

Heat Code	V	Nb	B	Al	N	Ti	Ta	CE
MLA1	.001	.000						.298

Physical Properties

Heat Code	Tensile* KSI	Yield KSI	% Elong. in 2 in.	% R.A. & Hardness HB
MLA1	66.5L	46.0	27.0	112

Charpy Results

Heat Code	Size mm x 10 mm	Temp(F)	Foot Lbs.	Lat. Expansion	% Shear
MLA1					

\* L = Longitudinal, T = Transverse, R = Round, S = Strip

We certify that the material herein described has been manufactured, heat treated, sampled, tested, and inspected in accordance with the above standards and specifications and satisfies those requirements. We certify these flanges and fittings capable of passing a hydrostatic test compatible with their rating. The above figures are correct as contained in the records of the Company. This information has been electronically transmitted to our customer.

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