

CERTIFIED MATERIAL TEST REPORT

Trinity Industries Inc. Fitting and Flange Group  
 Hackney \* Ladish \* Flo-Bend \* CQ

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Order Number: 00/42 (231740-003) INV #00068786 00/10/25 Date: 10/26/00

Sold to: FERRETERA ANAHUAC, S.A. DE C.V Ship to: FERRETERA ANAHUAC, S.A. DE0001  
 VALLE DE LAS ALAMEDAS NO.66 B C/O SPECIALIST IN TRANSIT FWR  
 SAN FRANCISCO CHILPAN 1801 MARKLEY MODERN IND. PARK  
 TULTITLAN, EOO. DE MEXICO LAREDO TX 78041

Heat Code	Quantity	Description / Specifications
M9DR	30	3/4XHCAP A/SA 234 - 99 WPB A516-70 106/AOR1042 NORM. 1650 NACE MR0175
EG00FX	10	8 X 4 STD RED TEE A/SA 234 - 99 WPB A106-B 66/58262K NORM. 1650 NACE MR0175
M2BE	10	8 X 4 STD ECC A/SA 234 - 99 WPB A106B 133 / 29UO AS ROLLED NACE MR0175
M9ZK	20	8 X 6 STD ECC A/SA 234 - 99 WPB A106B 133 / 29UN NORMALIZED NACE MR0175

Chemical Analysis

Heat Code	Test	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Al
M9DR	M	.200	1.040	.012	.003	.240	.080	.050	.040	.010	.0240
EG00FX	M	.170	.540	.010	.011	.310	.080	.030	.040	.010	.0150
M2BE	M	.150	.470	.007	.005	.270	.170	.070	.070	.010	
M9ZK	M	.150	.470	.007	.005	.270	.170	.070	.070	.010	

Chemical Analysis (cont.)

Heat Code	N	V	B	Ti	Cb	Sn	W	Pb	Co	CE
M9DR	.0110	.010	.0005	.0100	.010	.005	.004	.002	.050	.393
EG00FX		.010	.0005	.0100	.010	.005	.004	.002	.050	.279
M2BE		.001			.001					.260
M9ZK		.001			.001					.260

Physical Properties

Heat Code	Tensile KSI	Type	Thickness	Yield KSI	% Elong. (4D)	% RA	Hardness HB
M9DR	81.0	T		55.5	30.0		159
EG00FX	69.6	L		45.2	32.0	61.0	132
M2BE	65.0			43.2	43.3		197
M9ZK	63.5			45.2	38.0	71.0	197

Charpy Results

Heat Code	Size x 10mm	Type	Temp. (F)	Foot Pounds	Later. Expansion	% Shear
M9DR						
EG00FX						
M2BE						
M9ZK						

Test: M=Mill Product

Type: T=Transverse L=Longitudinal

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.  
 /S/ Glinda LaFleur