

CERTIFIED MATERIAL TEST REPORT

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

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

Order Number: 99-07

Date: 04/22/99

Sold to: FERRETERA ANAHUAC, S.A. DE C.V Ship to:
VALLE DE LAS ALAMEDAS NO.66 B
SAN FRANCISCO CHILPAN
TULTITLAN, EOO. DE MEXICO

Heat Code	Quantity	Description / Specifications	
EF98BH		24 X 16 S/80 CONC A106B 09/Y49534	A/SA 234 - 95A WPB NACE MR0175

Chemical Analysis

Heat Code	Test	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Al
EF98BH	M	.230	.880	.010	.006	.210	.020	.030	.090	.020	.0029

Chemical Analysis (cont.)

Heat Code	N	V	B	Ti	Cb	Sn	W	Pb	Co	CE
EF98BH		.000								.401

Physical Properties

Heat Code	Tensile KSI	Type	Thickness	Yield KSI	% Elong. (4D)	% RA	Hardness HB
EF98BH	76.4	L		53.7	47.0		167

Charpy Results

Heat Code	Size x 10mm	Type	Temp. (F)	Foot Pounds	Later. Expansion	% Shear
EF98BH						

Test: M-Mill Product
Type: 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