

CERTIFIED MATERIAL TEST REPORT

Trinity Fitting Group Inc.

Hackney * Ladish * Flo-Bend

P.O. Box 568887 - 2525 Stemmons Freeway - Dallas, TX 75356 - 8887

Phone: (214) 589-8177 Fax: (214) 589-8892

Order Number: 4515

(257500-009) INV #00115650 02/08/22 Date: 08/23/02

Sold to: TUBOS CONEXIONES Y TANQUES
VALLE DE LAS ALAMEDAS NO.66 B
SAN FRANCISCO CHILPAN
TULTITLAN, EOO. DE MEXICO

Ship to: TUBOS CONEXIONES Y TANQUES 001
C/O SPECIALIST IN TRANSIT FWR
1801 MARKLEY - MODERN IND PARK
LAREDO TX 78041

Heat Code	Quantity	Description / Specifications	
ED02JA ✓	3	18 X 16 STD CON A106-B 9/A40865	A/SA 234 - 01 WPB NORM. 1650 NACE MR0175
ED02IV ✓	2	20 X 18 STD CON A106-B 9/A40037	A/SA 234 - 01 WPB NORM. 1650 NACE MR0175
ED02IV ✓	2	20 X 16 STD CON A106-B 9/A40037	A/SA 234 - 01 WPB NORM. 1650 NACE MR0175
M2ZY ✓	20	10 X 8 STD ECC	A/SA 234 - 01 WPB
M2XH		A106B 133/ 689UN NSS	NORMALIZED NACE MR0175

Chemical Analysis

Heat Code	Test	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Al
ED02JA	M	.180	.770	.006	.008	.210	.020	.040	.050	.010	.0270
ED02IV	M	.170	.730	.007	.008	.210	.010	.020	.060	.010	.0310
ED02IV	M	.170	.730	.007	.008	.210	.010	.020	.060	.010	.0310
M2ZY	M	.180	.870	.007	.002	.220	.200	.080	.060	.030	

Chemical Analysis (cont.)

Heat Code	N	V	B	Ti	Cb	Sn	W	Pb	Co	CE
ED02JA	.0040	.010	.0005	.0100	.010	.002	.002	.001	.050	.326
ED02IV	.0070	.010	.0005	.0100	.010	.002	.002	.001	.050	.309
ED02IV	.0070	.010	.0005	.0100	.010	.002	.002	.001	.050	.309
M2ZY		.001			.001					.361

Physical Properties

Heat Code	Tensile KSI	Type	Thickness	Yield KSI	% Elong. (4D)	% RA	Hardness HB
ED02JA	74.1	L		45.9	35.0	74.0	131
ED02IV	74.7	L		47.1	38.0	75.0	126
ED02IV	74.7	L		47.1	38.0	75.0	126
M2ZY	74.2			51.1	35.0	69.1	197

Charpy Results

Heat Code	Size x 10mm	Type	Temp. (F)	Foot Pounds	Later. Expansion	% Shear
ED02JA						
ED02IV						
ED02IV						
M2ZY						

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