

CERTIFIED MATERIAL TEST REPORT

Trinity Fitting Group Inc.

Hackney * Ladish * Flo-Bend

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4710

Order Number: 109

(258370-001) INV #00117058 02/09/18 Date: 09/19/02

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				
M3AE	3	12 X 6 STD ECC	A/SA 234 - 01	WPB		
		A106B 133/ 721UO USS	AS ROLLED			NACE MR0175
EF02KP	5	12 X 8 STD ECC	A/SA 234 - 01	WPB		
		A106-B 140/P220406	NORM. 1650			NACE MR0175
EJ00JY	3	16 X 14 STD ECC	A/SA 234 - 99	WPB		
		A106-B 9/A01713	NORM. 1650			NACE MR0175
EM01YY	15	16 XH CAP	A/SA 234 - 00	WPB		
		A515-70 117/B1F517	NORM. 1650			NACE MR0175

Chemical Analysis

Heat Code	Test	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Al
M3AE	M	.180	1.100	.006	.005	.230	.060	.030	.060	.010	
EF02KP	M	.220	.520	.011	.023	.220	< .010	.010	< .010	< .010	.0230
EJ00JY	M	.220	.700	.003	.003	.220	.020	.030	.050	.020	.0310
EM01YY	M	.180	1.020	.006	.002	.230	.200	.090	.100	.030	.0290

Chemical Analysis (cont.)

Heat Code	N	V	B	Ti	Cb	Sn	W	Pb	Co	CE
M3AE		.001			.001					.383
EF02KP		< .010	<.0005	<.0100	<.010	.002	<.002	<.001	<.050	.313
EJ00JY	.0000	.010	.0005	.0100	.010	.002	.002	.003	.050	.355
EM01YY		.010	.0005	.0300	.010	.011	.004	.002	.050	.397

Physical Properties

Heat Code	Tensile KSI	Type	Thickness	Yield KSI	% Elong. (4D)	% RA	Hardness HB
M3AE	77.5			52.0	40.0		197
EF02KP	71.2	L		46.7	30.0	64.0	128
EJ00JY	66.3	L		41.9	32.0	69.0	130
EM01YY	77.4	T		48.9	34.0	67.0	140

Charpy Results

Heat Code	Size x 10mm	Type	Temp. (F)	Foot Pounds	Later. Expansion	% Shear
M3AE						
EF02KP						
EJ00JY						
EM01YY						

Test: M=Mill Product

Type: L=Longitudinal T=Transverse

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