

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: 106

(258225-001) INV #00117017 02/09/17 Date: 09/18/02

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	
WK01TJ	8	8 S/20 LR 90 DEG EL A/SA 234 - 00A WPB A106B 07 / O30326 STRESS RELIEVED	NACE MR0175
KE02QN	2	8 S/20 LR 45 DEG EL A/SA 234 - 01 WPB A106B/007/O80526 STRESS RELIEVED	NACE MR0175
EE02JL	1	8 S/20 TEE A/SA 234 - 01 WPB A106-B 66/82320K NORM. 1650	NACE MR0175
EJ00YO	2	8 S/20 CAP A/SA 234 - 99 WPB A516-70 106/BOW7032 NORM. 1650	NACE MR0175

Chemical Analysis

Heat Code	Test	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Al
WK01TJ	M	.150	.640	.006	.002	.220	.090	.050	.060	.020	
KE02QN	M	.150	.660	.004	.004	.210	.090	.040	.030	.000	
EE02JL	M	.200	.550	.011	.008	.200	.050	.050	.050	.010	.0130
EJ00YO	M	.230	1.060	.011	.004	.190	.110	.060	.050	.010	.0240

Chemical Analysis (cont.)

Heat Code	N	V	B	Ti	Cb	Sn	W	Pb	Co	CE
WK01TJ		.001			.001					.282
KE02QN		.001			.001					.274
EE02JL		.010	.0005	.0100	.010	.009	.002	.001	.050	.312
EJ00YO	.0070	.010	.0005	.0100	.010	.006	.002	.003	.050	.431

Physical Properties

Heat Code	Tensile KSI	Type	Thickness	Yield KSI	% Elong. (4D)	% RA	Hardness HB
WK01TJ	62.3			40.8	45.7		135
KE02QN	63.7			42.0	42.5		125
EE02JL	73.8	L		47.4	35.0	72.0	134
EJ00YO	80.3	T		55.1	30.0	59.0	156

Charpy Results

Heat Code	Size x 10mm	Type	Temp. (F)	Foot Pounds	Later. Expansion	% Shear
WK01TJ						
KE02QN						
EE02JL						
EJ00YO						

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