

**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: 5301

(261200-004) INV #00122050 02/12/19 Date: 12/20/02

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				
M3BK	10	5 X 4 STD ECC	A/SA 234 - 01	WPB		
		A106B 133/ 682UN	USS	NORMALIZED		NACE MR0175
EJ02MR	30	6 X 4 STD ECC	A/SA 234 - 01	WPB		
		A106-B 7/P80259		NORM. 1650		NACE MR0175
EJ02NK	15	10 X 6 STD ECC	A/SA 234 - 01	WPB		
		A106-B 55/86256		NORM. 1650		NACE MR0175
EG02LL	8	16 X 12 STD ECC	A/SA 234 - 01	WPB		
		A106-B 9/A40029		NORM. 1650		NACE MR0175

**Chemical Analysis**

Heat Code	Test	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Al
M3BK	M	.180	1.120	.006	.006	.220	.020	.010	.020	.000	
EJ02MR	M	.140	.600	.008	.004	.200	.120	.050	.040	.010	.0260
EJ02NK	M	.190	.990	.013	.005	.380	.060	.030	.030	.050	.0190
EG02LL	M	.200	1.100	.010	.007	.170	.010	.070	.100	.030	.0210

**Chemical Analysis (cont.)**

Heat Code	N	V	B	Ti	Cb	Sn	W	Pb	Co	CE
M3BK		.000			.001					.372
EJ02MR	.0089	< .010	<.0005	.0200	<.010	.007	<.002	<.001	<.050	.263
EJ02NK	.0040	< .010	<.0005	<.0100	<.010	.007	<.002	<.001	<.050	.379
EG02LL	.0050	.067	<.0005	<.0100	<.010	.003	<.002	<.001	<.050	.428

**Physical Properties**

Heat Code	Tensile KSI	Type	Thickness	Yield KSI	% Elong. (4D)	% RA	Hardness HB
M3BK	76.6			52.6	35.9	73.4	197
EJ02MR	69.1	L		40.4	37.0	73.0	111
EJ02NK	79.0	L		48.3	32.0	78.0	149
EG02LL	80.8	L		57.4	32.0	72.0	149

**Charpy Results**

Heat Code	Size x 10mm	Type	Temp. (F)	Foot Pounds	Later. Expansion	% Shear
M3BK						
EJ02MR						
EJ02NK						
EG02LL						

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