

**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

BPCS

Order Number: 7217

(271469-023) DOC #00141035 03/11/19 Date: 11/20/03

Sold to: TUBOS CONEXIONES Y TANQUES  
VALLE DE LAS ALAMEDAS NO 66 B  
SAN FRANCISCO CHILPAN  
TULTITLAN EOO DE MEX 54940

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

| <u>Heat Code</u> | <u>Quantity</u> | <u>Description / Specifications</u>  |   |
|------------------|-----------------|--------------------------------------|---|
| EF03EL           | 1               | 12 X 4 STD RED TEE<br>471-D 9/A61324 | A/SA 234 - 01 WPB<br>AS ROLLED<br>NACE MR0175 |

Chemical Analysis

| <u>Heat Code</u> | <u>Test</u> | <u>C</u> | <u>Mn</u> | <u>P</u> | <u>S</u> | <u>Si</u> | <u>Cu</u> | <u>Ni</u> | <u>Cr</u> | <u>Mo</u> | <u>Al</u> |
|------------------|-------------|----------|-----------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|
| EF03EL           | M           | .160     | 1.110     | .015     | .008     | .220      | .030      | .060      | .100      | .020      | .0240     |

Chemical Analysis (cont.)

| <u>Heat Code</u> | <u>N</u> | <u>V</u> | <u>B</u> | <u>Ti</u> | <u>Cb</u> | <u>Sn</u> | <u>W</u> | <u>Pb</u> | <u>Co</u> | <u>CE</u> |
|------------------|----------|----------|----------|-----------|-----------|-----------|----------|-----------|-----------|-----------|
| EF03EL           | .0050    | .068     | <.0005   | <.0100    | <.010     | .003      | <.002    | .002      | <.050     | .388      |

Physical Properties

| <u>Heat Code</u> | <u>Tensile KSI</u> | <u>Type</u> | <u>Thickness</u> | <u>Yield KSI</u> | <u>% Elong. (4D)</u> | <u>% RA</u> | <u>Hardness HB</u> |
|------------------|--------------------|-------------|------------------|------------------|----------------------|-------------|--------------------|
| EF03EL           | 82.0               | L           |                  | 58.0             | 39.0                 |             | 197                |

Charpy Results

| <u>Heat Code</u> | <u>Size x 10mm</u> | <u>Type</u> | <u>Temp. (F)</u> | <u>Foot Pounds</u> | <u>Later. Expansion</u> | <u>% Shear</u> |
|------------------|--------------------|-------------|------------------|--------------------|-------------------------|----------------|
| EF03EL           |                    |             |                  |                    |                         |                |

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