

CERTIFIED MATERIAL TEST REPORT  
Hackney Ladish Inc.

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 Attn: INVOICE # 359536 Date: 04/22/09

Sold to: PLESA ANAHUAC Y CIAS S. A. DE Ship to:  
 VALLE DE LAS ALAMEDAS NO 66-0  
 TULTITLAN MEX 54940

Heat Code Description / Specifications

L08WL	12 X 6 STD TEE	A/SA 234 - 07	WPB (SMLS)
	A106B 175 085376	HOT FORMED	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>
L08WL	M	.180	.900	.009	.005	.210	.050	.020	.010	< .010	<.0100

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>
L08WL		< .010	<.0005	<.0100	<.010					.340

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>
L08WL	73.2	L		42.1	43.0		149

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>
L08WL						

Test: M=Mill Product  
 Type: L=Longitudinal

We certify that the material herein described has been manufactured in accordance with the above standards and specifications and satisfies all the requirements of the editions specified. We certify all materials provided comply with ISO 10204 paragraph. 3.1 which replaces type 3.1.B of the 1991 edition of EN 10204. Our ISO9001:2000 certificate number is CERT11763-2007-AQ-HOU-RVA/ANAB. We certify these fittings capable of passing 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.