

Aug. 6. 2008 10:01AM

CERTIFIED MATERIAL TEST REPORT  
Hackney Ladish Inc.

No. 4636 P. 3

P.O. Box 803466 - 5495 Beltline Rd. #290 - Dallas, TX 75254  
Phone: (800) 527-4500 Fax: (214) 269-5601

Order Number: 4616

Date: 08/06/08

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		
F08HCN	16 X 10 STD TEE	A/SA 234 - 07	WPB (SMLS)
	XS2 9 S60606	NORMALIZED	NACE MR0175

Chemical Analysis

Heat Code	Test	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Al
F08HCN	M	.190	1.060	.009	.002	.210	.030	.040	.070	.020	.0300

Chemical Analysis (cont.)

Heat Code	N	V	B	Ti	Cb	Sn	W	Pb	Co	CE
F08HCN		.000	.0002	.0030	.001					.389

Physical Properties

Heat Code	Tensile KSI	Type	Thickness	Yield KSI	% Elong. (4D)	% RA	Hardness HB
F08HCN	75.5	L		49.3	37.0	71.0	146

Charpy Results

Heat Code	Size x 10mm	Type	Temp. (F)	Foot Pounds	Later. Expansion	% Shear
F08HCN						

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.