

CERTIFIED MATERIAL TEST REPORT
Hackney Ladish Inc.

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Phone: (800) 527-4500 Fax: (214) 269-5601

Order Number: 4616

Date: 09/17/08

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

F08HBN	20 X 16 STD ECC X52 9 S60605	A/SA 234 - 07 NORMALIZED	WPB (SMLS) NACE MR0175
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Chemical Analysis

Heat Code	Test	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Al
F08HBN	M	.210	1.050	.009	.007	.200	.030	.050	.060	.020	.0320

Chemical Analysis (cont.)

Heat Code	N	V	B	Ti	Cb	Sn	W	Pb	Co	CE
F08HBN		.000	.0001	.0020	.001					.406

Physical Properties

Heat Code	Tensile KSI	Type	Thickness	Yield KSI	% Elong. (4D)	% RA	Hardness HB
F08HBN	76.0	L		49.3	39.0	74.0	144

Charpy Results

Heat Code	Size x 10mm	Type	Temp. (F)	Foot Pounds	Later. Expansion	% Shear
F08HBN						

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.