

CERTIFIED MATERIAL TEST REPORT
Hackney Ladish Inc.

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

Order Number: 4727

Date: 08/13/08

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
F08GK	18 XH CAP A516-70 154 8102950 HOT FORMED A/SA 234 - 07 WPB (SMLS) NACE MR0175
C08AJ	10 XH CAP A516-70 154 8101450 HOT FORMED A/SA 234 - 07 WPB (SMLS) NACE MR0175

Chemical Analysis

Heat Code	Test	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Al
F08GK	M	.190	1.030	.021	.006	.190	.210	.070	.100	.020	.0240
C08AJ	M	.190	1.090	.011	.005	.220	.250	.080	.090	.030	.0310

Chemical Analysis (cont.)

Heat Code	N	V	B	Ti	Cb	Sn	W	Pb	Co	CE
F08GK		.001	.0002	.0010	.002	.017				.404
C08AJ	.0089	.001	.0001	.0010	.001	.010				.417

Physical Properties

Heat Code	Tensile KSI	Type	Thickness	Yield KSI	% Elong. (4D)	% RA	Hardness HB
F08GK	79.3	T		50.7	22.1		163
C08AJ	75.6	T		47.4	25.7		156

Charpy Results

Heat Code	Size x 10mm	Type	Temp. (F)	Foot Pounds	Later. Expansion	% Shear
F08GK						
C08AJ						

Test: M=Mill Product
Type: T=Transverse

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.