

CERTIFIED MATERIAL TEST REPORT
Hackney Ladish Inc.

P.O. Box 568887 - 2525 Stemmons Freeway - Dallas, TX 75356 - 8887
Phone: (214) 589-8177 Fax: (214) 589-8892

Date: 08/01/06

Order Number: 1699

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

Heat Code	Quantity	Description / Specifications
B06GH1	16 XH CAP	A/SA 234 - 05A WPB (SMLS) NACE MR0175
	A516-70 164 713P66990	HOT FORMED
D06NW1S	5 STD CAP	A/SA 234 - 05A WPB (SMLS) NACE MR0175
	A516-70 164 162P44710	STRESS RELIEVED
E06WFS	6 STD CAP	A/SA 234 - 06 WPB (SMLS) NACE MR0175
	A516-70 173 161P33650	STRESS RELIEVED
B06JKS	8 STD CAP	A/SA 234 - 05A WPB (SMLS) NACE MR0175
	A516-70 164 716P61950	STRESS RELIEVED

Chemical Analysis

Heat Code	Test	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Al
B06GH1	M	.180	1.020	.009	.007	.310	.280	.200	.030	.010	.0380
D06NW1S	M	.180	1.060	.008	.003	.364	.239	.180	.020	.003	.0320
E06WFS	M	.170	1.060	.011	.009	.352	.241	.160	.020	.001	.0390
B06JKS	M	.170	1.060	.012	.006	.330	.300	.190	.040	.010	.0340

Chemical Analysis (cont.)

Heat Code	N	V	B	Ti	Cb	Sn	W	Pb	Co	CE
B06GH1	.0060	.004	.0001	.0020	.001	.002				.390
D06NW1S		.002		.0010	.001					.389
E06WFS	.0050	.001	.0001	.0030	.002	.016				.377
B06JKS	.0050	.005	.0001	.0030	.001	.009				.390

Physical Properties

Heat Code	Tensile KSI	Type	Thickness	Yield KSI	% Elong. (4D)	% RA	Hardness HB
B06GH1	77.2			45.4	43.0		163
D06NW1S	75.6	T		51.0	35.0	65.0	158
E06WFS	71.9	T		46.5	36.0	64.0	149
B06JKS	77.0	T		50.7	35.0	65.0	151

Charpy Results

Heat Code	Size x 10mm	Type	Temp. (F)	Foot Pounds	Later. Expansion	% Shear
B06GH1						
D06NW1S						
E06WFS						
B06JKS						

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 latest editions unless otherwise noted. We certify these 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