

CERTIFIED MATERIAL TEST REPORT
Hackney Ladish Inc.

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

Order Number: 2165

Date: 11/10/06

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
A06BT	18 STD LR 90	A/SA 234 - 05A WPB (SMLS)
	A106B 57 25319	HOT FORMED NACE MR0175
F06YJS	18 X 12 STD CONC	A/SA 234 - 06 WPB (SMLS)
	A106B 9 A20642	STRESS RELIEVED NACE MR0175
F06YLS	20 X 16 STD CONC	A/SA 234 - 06 WPB (SMLS)
	A106B 9 B26236	STRESS RELIEVED NACE MR0175
A06CTS	14 X 10 STD ECC	A/SA 234 - 05A WPB (SMLS)
	TM47 57 25275	STRESS RELIEVED NACE MR0175

Chemical Analysis

Heat Code	Test	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Al
A06BT	M	.160	1.020	.010	.001	.230	.011	.080	.090	.030	.0200
F06YJS	M	.200	1.060	.008	.005	.180	.030	.060	.080	.040	.0270
F06YLS	M	.190	1.060	.007	.005	.190	.030	.030	.060	.030	.0330
A06CTS	M	.170	1.030	.013	.003	.250	.137	.090	.080	.040	.0230

Chemical Analysis (cont.)

Heat Code	N	V	B	Ti	Cb	Sn	W	Pb	Co	CE
A06BT	.0006	.000	.0000	.0000	.000	.007				.360
F06YJS		.003	.0001	.0020	.001					.407
F06YLS		.003	.0001		.004					.389
A06CTS	.0112	.000	.0000	.0000	.000					.380

Physical Properties

Heat Code	Tensile KSI	Type	Thickness	Yield KSI	% Elong. (4D)	% RA	Hardness HB
A06BT	75.8	L		52.8	44.0		197
F06YJS	70.7	L		44.4	38.0	75.0	149
F06YLS	65.2	L		41.0	37.0	75.0	131
A06CTS	74.0	L		49.0	31.0	.0	154

Charpy Results

Heat Code	Size x 10mm	Type	Temp. (F)	Foot Pounds	Later. Expansion	% Shear
A06BT						
F06YJS						
F06YLS						
A06CTS						

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 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