

Jul 10, 2008 9:59AM

CERTIFIED MATERIAL TEST REPORT
Hackney Ladish Inc.

No. 3464 P. 3

P. O. Box 803466 - 5495 Beltline Rd. #290 - Dallas, TX 75254

Order Number: 4727

Phone: 800-577-6500 FAX: 714-269-8601

Date: 07/10/08

Sold to: PLESA ANAHUAC Y CIAS S. A. DE SHIP TO:
VALLE DE LAS ALAMEDAS NO 66-3
TULITILAN MEX 54940

Heat Code	Description / Specifications	A/SA 234 - 07 WPB (SMLS)
B08ZS1S	12 STD CAPS	STRESS RELIEVED
B08ZS1S	A516-70 154 7108814	A/SA 234 - 07 WPB (SMLS)
B08ZS1S	10 STD CAPS	STRESS RELIEVED
B08ZS1S	A516-70 154 7108814	A/SA 234 - 07 WPB (SMLS)
K07RM1S	4 STD CAPS	STRESS RELIEVED
K07RM1S	A516-70 154 B7W8350	A/SA 234 - 07 WPB (SMLS)
M07WD	20 XH CAPS	HOT FORMED
M07WD	A516-70 154 7107908	A/SA 234 - 07 WPB (SMLS)

Heat Code	Test	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Al
B08ZS1S	M	.180	1.060	.020	.006	.180	.270	.060	.110	.020	.0230
B08ZS1S	M	.180	1.060	.020	.006	.180	.270	.060	.110	.020	.0230
K07RM1S	M	.220	1.020	.006	.006	.150	.180	.070	.050	.020	.0280
M07WD	M	.190	1.000	.018	.003	.270	.210	.080	.090	.000	.0240

Heat Code	N	V	B	TI	Co	Sn	W	Pb	Co	CE
B08ZS1S	.002	.0003	.0010	.001	.012	.001	.012	.001	.012	.405
B08ZS1S	.002	.0003	.0010	.001	.012	.001	.012	.001	.012	.405
K07RM1S	.0100	.001	.0004	.0020	.000	.008	.008	.000	.008	.420
M07WD	.002	.0004	.0010	.001	.011	.001	.011	.001	.011	.394

Heat Code	Tensile KSI	Type	Thickness	Yield KSI	% Elong.	(4D) % RA	Hardness HB
B08ZS1S	74.0	T	74.0	52.5	34.0	152	
B08ZS1S	74.0	T	74.0	52.5	34.0	152	
K07RM1S	72.0	T	72.0	46.6	30.0	139	
M07WD	79.1	T	79.1	54.6	18.8	163	

Heat Code	Size x 10mm	Type	Temp. [?]	Foot Pounds	Later.	Expansion	% Shear
B08ZS1S							
B08ZS1S							
K07RM1S							
M07WD							

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-AO-ROU-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.