

TEST CERTIFICATE



PAGE NO: 01 OF 01
 FILE NO: 3526-03-06
 DATE: 03/09/99
 MILL ORDER NO: 93702-001

CUSTOMER P.O.: 21105
 DESCRIPTION: 1 - RECTANGLE .375 -X- 96 -X- 288

22223

SEND TO: HEFLIN STEEL SUPPLY CO. P.O. BOX 1249 PHOENIX AZ 85001
 HEFLIN STEEL SUPPLY CO. P.O. BOX 1249 PHOENIX AZ 85001
 HEFLIN STEEL COMPANY CLIC #0217, EAST END PHOENIX AZ 85007

THE MATERIAL HAS BEEN MANUFACTURED AND TESTED IN ACCORDANCE WITH PURCHASE ORDER REQUIREMENTS AND SPECIFICATIONS:

HFLIN REM-500 REV 2 YR 95

MATERIAL PRODUCED UNDER A CERTIFIED QUALITY MGMT SYSTEM COMPLYING WITH ISO 9002 ABS-QE CERT. NO. 30130

CHEMICAL ANALYSIS												PHOSPHORUS	SULFUR	OTHER TESTS PERFORMED
MELT/SLAB	C	MN	P	S	CU	SI	NI	CR	MO	V	Ti	B	CB	GS 7-8
R0959	.29	.66	.008	.001	.25	.50	.60	.27	.24	.002	.033	.0023	.001	FINE LINE

TENSILES				CHARPY V IMPACTS				OTHER TESTS PERFORMED					
YLD	TENS	% ELONG	% R.A.	TYPE	TEMP	MILS LATERAL EXPANSION	% SHEAR	BRINELL	- 511			PLATE	

INFORMATION																
WEIGHT PER PIECE = 2940 LBS. 1336 KG. ALL STEEL HAS BEEN MELTED AND MANUFACTURED IN THE U.S.A. MATERIAL HAS BEEN VACUUM DEGASSED AND CALCIUM TREATED FOR SULFIDE SHAPE CONTROL. FINELINE MOD FOR SULPHUR BRINELL TESTING WAS PERFORMED USING A CARBIDE BALL (HBW). B/L 244288 NOKL 2913																
HEAT TREAT CYCLES - MATL OR TESTS - DEG				FAHR				HEAT TREAT CYCLES - TESTS ONLY - DEG				FAHR				
START TEMP	END TEMP	NOM TEMP	HOLD MINS	COOL METHOD	MAX TEMP	MIN TEMP	HOLD MINS	COOL METHOD	MAX TEMP	MIN TEMP	HOLD MINS	COOL METHOD	MAX TEMP	MIN TEMP	HOLD MINS	COOL METHOD
X	X	1660	0022	HQ			0036	AC								

WE HEREBY CERTIFY THE ABOVE INFORMATION IS CORRECT:
 FORM NO. 2221T (R 7/98)
 Quality Assurance Laboratory
 Coatesville, PA 19320
 SUPERVISOR - TEST REPORTING
Elmer J. ...