

Test Certificate

WARNING: This product can expose you to chemicals including nickel and nickel compounds, which are known to the State of California to cause cancer. For more information go to <u>www.P65Warnings.ca.gov</u>.

12400 Highway 43 North, Axis, Alabama 36505, US

	1240	0 Fighway 43 N	orth, Axis	s, Alabai	na 3030	5, 03									Form TC	1: Revisior	n 4: Dat	e 6 Feb	2019		
Customer: Customer P.								er P.O.No.:M2812 Mill Order No. 41-5689									3946-02 Shipping Manifest: UR168140				
							scription: HARDOX 450 ABRASION RESISTANT STEEL PLATE									Ship Date: 20 Jun 19 Cert No: 8502121 Cert Date: 20 Jun19 (Page 1 of 1)					
													Heat Treat Type: QUENCHED								
66269		Size:	Size: 9.50 X 2438 X 7315 (MM)																		
Tested Pieces: Tensiles																/ Impact Tests					
Heat	Piece	Piece	Tst		UTS		Elong %		Hardnes	ess	Abs.	bs. Energy			% Shear	Tst	Tst	Tst	BDWTT		
ld	ld	Dimensions	Loc	(MPA)	(MPA)		50 200 (mm)	Dir			12	3 A	vg	1 2	2 3 Av	g Tmp	Dir	Siz (mm)	Tmp %Shr		
W9E831	C16	9.62 (DISCRT)	L						460 HB\	N											
Heat								nical An	-												
ld W9E831	C	Mn P 1.36 .008	S		Tot Al So 056 .05		Cu Ni 3 .06	<u>Cr</u>	.02	Cb .013	0 V 005		.005		B N 14 .0040	Ca .0014 .4			ORGN USA		
OF TH CEV (FLAT. HARDNI MTR EI NO WE THE E MATER PRODUC	IS PRODUC IIW) = C ACC. EN1 ESS RESUL N 10204:2 LD REPAIR -MAIL ADD	+ MN/6 + (C 0029 CL N, S T LABEL HBW 004 INSPECTI HAS BEEN PH RESS FOR MEX D BELOW WITH	CR+MO+V ST H AN = HBW LON CER ERFORME &LCO IM)/5 + D SURF 10MM/3 TIFICA D ON T PORT P	(NI+CU ACE ACC 000KG TE 3.1 HIS MA' URPOSE: IS PRO)/15 C. EN] COMPI FERIAI S IS N	LO163-2 (LIANT MEXICO.CI) FROM CO	CLA1 ERTIFI DIL		SSAE C16	3.COM. 606	72889 72891	PC	DDED ES: ES:	DURING T 1, KGS: 1, KGS:	132	9.49 9.49 9.49	2E			
(P)	Cust	Part #: 1751	1				TESTE	D IN AC	ERTIFY 1 CORDAN IS OF, TH	CE W	ITH, AN	D MEET	S THE			Justin Wa					