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TEST CERTIFICATE



ATION No. %P %S	0.15	%Cr	%Cu	0.25	I RND- %MO 0.06 0.0350 HARI	%V		GCOLOU	POSITI %Ti - 0.020	%B %B - 0.0006	BLT/BI SIZE (r 210x23 *Sn - 0.02 0.0011	%W	DER NO.	%Ca %Ca - -	9823 ON) %Cc	LENGTH (Mtrs)	NO.0 PIEC	1513 F QTY	
%P %S 	%Si	No	%Cu	%Ni %Ni - 0.25 0.1000 RTIES	I RND- %MO 0.06 0.0350 HARI	%V	CHEMIC %A1	COLOU. URPLE+B. AL COM PPb	CODE LUE POSITI STi 0.020	%B - 0.0006	SIZE(r 210x23 %Sn - 0.02 -	%W	%As	%Ca - -	%SL - 0.010	-	(Mtrs)	PIEC	ES (MT)	
%P %S 	%Si		%Cu - 0.25 0.0150 PROPEI	%Ni - 0.25 0.1000 RTIES	RND- %Mo 0.06 0.0350	75 %V - 0.02 - 0.0050	CHEMIC %A1	JRPLE+B	POSITI %Ti	%B - 0.0006	210x23 %Sn - 0.02 -		%As	 - -	- - 0.010	-	5.500 %Nb - 0.0100	O2 ppm - 15	21.310 N2 H ppm pp - - 90 2.1	
%P %S 	%Si	%Cr	%Cu - 0.25 0.0150 PROPEI	%Ni - 0.25 0.1000 RTIES	%MO - 0.06 0.0350	%V - 0.02 - 0.0050	CHEMIC %A1	AL COM	POSITI %Ti - 0.020	%B - 0.0006	%Sn - 0.02 - 0.0011	%W - -	%As	 - -	- - 0.010	-	% Nb	O2	N2	
- - - 0.030 0.03	0.15 0.15 0.35 	0.85 - 1.05 (- 0.25 0.0150 PROPEI	- 0.25 0.1000 RTIES	0.06 0.0350	%V - 0.02 - 0.0050	%A1 	%Pb	%Ti - 0.020	%B - 0.0006	- 0.02 	 - - -	 - 0.01	 - -	- - 0.010	-	- 0.0100 _	ppm - 15 	ppm ppm	
- - - 0.030 0.03	0.15 0.15 0.35 	0.85 - 1.05 (- 0.25 0.0150 PROPEI	- 0.25 0.1000 RTIES	0.06 0.0350	 - 0.02 0.0050	0.020	- 3	0.020	 - 0.0006	- 0.02 	 - - -	 - 0.01	 - -	- - 0.010	-	- 0.0100 _	ppm - 15 	ppm ppm	
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		0.9700 	0.0150 PROPEI	0.1000 RTIES	0.0350 ———————————————————————————————————	 0.0050 	0.050	- 1			0.02	- -	0.01	i - i	0.010		0.0100	15	90 2.	
As Rolled	MECHAN / H.T.	ICAL	PROPEI	RTIES MPACT	HARI	l	1		0.0027	0.0002			0.0050	-	0.000	7 -	0.0020	14	76 1.	
UTS	/ H.T.		(IZO	MPACT		ONESS	l DT		T		TON				100		10.0020			
UTS	and the second	%RA	(IZO			ONESS	I DT	1 44			001	INY V	ALUE (MM -	HRC)	_	_/		_	
	%EL 	%RA		D/CHARP	# V	DIAMOD	DI	CE	13	1 - 1		T L		les.	1		1	ĺ	1	
			()		PY) (BI	HN)	VALUE	VALUE	J1.5 	J3 	J5 J	5 J7 	J9 	J10 3	711 J1	.3 J15	J20	J25	5 J30	
-	- 1	-					-	-		37.0	32 0	29.0			.0 -					
 	-	[- [i-		240		-	-		48.0 :		34.0		1738	2.0 -	-	I-	1-	-	
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		1	- 1				METAL	URGIC	AL PRO	PERTI	ES		1							
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BT BH 	CT CH	DT DH	H - E-	112)	112)		()		dA +		s+dC = D		D	Full Partial Total			The second secon		RATIO	
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	B T B H - - 2.00 0.50 - 0.50 - (/SPECTRAL:	B T B H C T C H - - - - 2.00 0.50 0.50 0.50 2 - - 0.00 - 2 C/SPECTRAL: OK. STEP DOW	B T B H C T C H D T D	SIZE B T B H C T C H D T D H - E- - - - - - 6 2.00 0.50 0.50 0.50 2.00 1.00 8 - - 0.00 - 1.50 - 7/7.5 - - - - - - - - - -	SIZE (ASTM B T B H C T C H D T D H - E- 112)	SIZE (ASTM QUAB B T B H C T C H D T D H - E- 112)	SIZE(ASTM QUALITY B T B H C T C H D T D H - E - 112)	SIZE (ASTM QUALITY HARDNES B T B H C T C H D T D H - E- 112) ()	SIZE (ASTM QUALITY HARDNESS	SIZE (ASTM QUALITY HARDNESS B T B H C T C H D T D H - E - 112) () dA - - - - - 6 OK - - 2.00 0.50 0.50 0.50 2.00 1.00 8 - - 0.50 - 0.00 - 1.50 - 7/7.5 OK - - C/SPECTRAL:OK.STEP DOWN TEST:OK.U.S.T. (100%):OK.M.P.T. (100%):OK. REE FM RADIOACTIVE ELEMENTS	SIZE (ASTM QUALITY HARDNESS	SIZE (ASTM QUALITY HARDNESS BT B H C T C H D T D H - E- 112) () dA + dB+dC - - - - 6	SIZE (ASTM QUALITY HARDNESS	SIZE (ASTM QUALITY HARDNESS B T B H C T C H D T D H - E - 112)	SIZE (ASTM QUALITY HARDNESS BT B H C T C H D T D H - E - 112) () dA + dB+dC = D Full P.	SIZE (ASTM QUALITY HARDNESS BT B H C T C H D T D H - E - 112) () dA + dB+dC = D Full Partial - - - - - 6	SIZE (ASTM QUALITY HARDNESS	SIZE (ASTM QUALITY HARDNESS RESULTS B T B H C T C H D T D H - E - 112) () dA + dB+dC = D Full Partial Total ASTM-E-1 - - - - 6	SIZE (ASTM QUALITY HARDNESS RESULTS RESULTS	