Web Site: www.sunflagsteel.com E-mail: admin@sunflagsteel.com Regd. Off.: (0712) 2524661 Works: (07184) 285551 CIN: L27100MH1984PLC034003

Regd. Office: 33, Mount Road, Sadar, Nagpur - 440 001 India Works: Bhandara Road, Bhandara - 441 905 (Maharashtra) TEST CERTIFICATE



CUSTOMER : RAMKRISHNA FORGINGS LTD										PROCESS ROUTE MBF-EAF-LRF-VD-CCM-RM						TC NO. : 0022550										
								i																		
CUSTOMER SPECIFICATION No. HEAT GRADE No.								SECTION GRADE IN (mm) COLOUR CODE RND-56 PURPLE+BLUE						BLT/BLM SUPPLY CONDITION SIZE(mm)							LENGTH NO.OF QTY (Mtrs) PIECES (MT)					
							RND-						160								5.200	220 22.500				
											CHEMICA	L COM	POSIT	ION			1				100	580	+ 4.03	- 50	200	E One
T. 198	C	%Mn	%P	%S	%Si	%Cr	%Cu	%Ni	%Mo	%V	%A1.	%Pb	%Ti	%B	96	Sn	%W	%As	96		%Sb		10.000000000000000000000000000000000000		UNITED STORY	H2
		1 5 5		1	1	14	Ī <u> </u>	1	1		i1												N. T.	1000		ppm
P-MIN †0 -MAX 0			0.030	0.030	0.15	0.85	0.25	0.25	- 0.06	0.02	0.020	The state of the s	0.020	0.000	- 6 0.0:	2 -		0.01	- +	-	010	-	0.0100	- 15	- 90	-
CTUAL 0	.17	0.86	0.0140	0.0070	0,2200	0.9900	0.0230	0 0 0 0 1 6 0	0.0050	0.0040	0 0 . 0220	- 7	0.0024	0.000	2 0 . 0	010 -		0.004	8 -		0006	-	0.0028	13	65	1
			1 72		MECHA	NICAL.	DDOD	ERTIES	1		11		1	1	_				_[1	<u> i </u>	11		<u>. i</u>
			As Rol	led /	н.т.	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			1				1			JOMI	INY V	ALUE	(MM)	HRO	2)		<u> </u>			
	PS/	YS	AS ROI		%EL	%RA		IMPACT OD/CHARE		ONESS	DI	CE	1.73		1 76	1 76		1								
	()		()			J. S. L.	()	OD/ CHAR	FI) (BE	IN)	VALUE	VALUE	J1.5	3 3 3	J5	J6 	J7	J9 	J10	J11	J13 	J15	J20	J2	5	J30
PEC-MIN	1		1-	-	•	-	-				1		40.0) 37.0	132 0	l _ · · _	29.0	1		21.0	1			- Physics -		
-MAX	- 		- · ·	-	-	1+	-		240		 - 	-) 48.0			34.0		-	32.0		 -	- -	-	-	
ACTUAL	-		- -			- -	- -		160		4-	1-1	42.0	0 40.0	36.0	-	33.0	31.0	 	28.0	26.0	24.0	21.0	18.	0 1	16.0
		N. Y.								<i>j</i> /	METALL	URGIC	AL PRO	PERT	IES	1					i					-15/19
		IN CLUSION RATING (ASTM-E-45 /I				/IS:416	S:4163) GRAIN SIZE(ASTM			FACE	QUENCH HARDNESS		JISG0			555			DE	DE ARBURIZATO		IN (MM)	MACRO E		H REDUCTION	
	A T	A H	B T I	в н с	СТ СН 	D T D	H - 1	E- 112)	1	1	(0		dA + dB		B+dC		= D		Ful	Part	ial	Total	ASTM-E-	Page 1 and the first		
PEC-MIN					- 1 - 1				OK		-	i	_		-			_	-	-	1		- 300		6:1	
-MAX	2.0	0 1.00	2.00	0.50 0.	50 0.50	2.00 1.	8 00		1	!	-	- -		1	-		-		1 - 1	! -	,	-	C2R2S2		-	
	1.0	i i	0.50	i		1.50 -	17/7		ОК			-			- 16		0	.000	-	0.25	[]	0.25	C2R1S1		10.4	0
REMARKS	:100	0% SPA	RK/SPECT	TRAL: OK	.STEP DO	OWN TEST	:OK.U.	S.T. (10	0%):OK.1	M.P.T.	(100%):0	K.		We ce	rtify		Sunfla			cribe			forms to	the	spec	Cs.