## SUR Metaliks Limited Sy.No.632, Narayanadevarakere, H.B.Halli, Tq. Bellary District, 583 222





## **TEST CERTIFICATE**

CUSTOMER NAME  PARTH ENGINEERING  CUSTOMER SPECIFICATION										PROCESS ROUTE  MBF-EOF-LRF-VD-CCM(EMS/AMLC)-RM							В	BLOOM SIZE (mm) 200x200				SUPPLY CONDITION										TC NO.					E	
AND THE STATE OF T																	As Rolled									24090223				08.09.20								
	¥	7	CUST	OMER	SPECIF	CAT	ION				HEA	ATNO.		GRAD	DE SIZE (mm) REDUCTION LENGTH (mm) COLOUR CODE INVOICE NO.									QTY (MT)/ BUNDLE			VEHIC											
EN 10084, April 2008 & Supersedes EN 10084:1998								50090 20MOCR				4 70 DIA		0 DIA	10,39;1				5910+40			White Base One Green & One				e Yellow	5524V 0222			9	6.710/4			NO. RJ02GC438				
1, (	HEMIC.	AL CO	MPOS	SITION	1					7.																				- 04	1		-1/					III)
% -	C	Si	Mi	n I	s		Cr	Mo	NI	AL	Cu	N2	AINZE			Τ.	П				N=	1		0.2					10			Ť				1		
Min	0.180	0.150	0.60	00	0.03			0.400	T-	0.020	150	(ppm)	atio						H a				-		-	-								*.	-	1.5	2.5	
Max	0.220	0.400	0.9	50 0.0	35 0.03	35 0	.550	0.500	0.250	-	0.250	1	2000		-	١.				0			121	-			17	12.0						8	-	100	197	-
ctual	0.205	0.232	0.9	30 0.0	13 0.0	25 0	.520	0.490	0.016	0.029	0.018	109.2	2.7			-	-					-				2						+	-	-	- 1	*	27.0	+
11.	HYSIC	AL PRO	OPER'	TIES	7																	III. JO!	MINY E	ARDE	NARILI	EV (in 1	(RC)				/ 55	1 =					1000	1
	1				le Prope						J	mpact T	est				Hai	rdness				100000000000000000000000000000000000000	MODEL ST		Market Co.	ara (Media	Guerra de la companya del companya de la companya del companya de la companya de	e service		e de la composition	2511114	SUPPLIES.				-		
3	Y		Juenc	UTS	empered	mpered) (ASTM E8)					Θ				ayar.											(Dista	ice Unit	mm)	Stand	aro : AS	IM AZS	31						
		m^2)	(N	/mm^2	)	% EL											Rolled BHN)					J1.5	J3	J5	37	311	J13	J15	J20	-	1 12	6	3	-			3	
Min	63	30		900		9							Min			-1		- 111		43.0	40.0	36.0	31.0	26.0	24.0	23.0	20.0	3				-		140				
Max		t.		1200		(*)	5.00		ŧć.		1988				Max		255		-	T.	Max	49.0	48.0	44.0	41.0	34.0	31.0	30.0	27.0	-	-			-:		-	-	
ctual	904	4.5	1	988.2		18.9		13	¥2			-			Actual	20	3-210		3		Actua	45.3	44.1	41.2	33.2	30.4	28.1	26.1	24.2		-							
IV.	METAL	LOGR	APHY		TI.	T													,	v. oti	HER TE	STS											Grand and				0)	
			Inclus	nclusion Rating (ASTM E45)						Inclusion Rating (As per DIN 50602)			Grain Size To		0.0000000000000000000000000000000000000	Total Decarb Macrostruct			cture	ture Step Down		Upset		100% Bars Checked by Manual UT - Found OK							T							
	A		В			€ €		D		DS							(1	(mm)				Step Down			Opace		100% Bars Checked by MPI - Found OK & Material is free from surface defects								s			
ТН		Н	Т	F	t T	T H		Т	Н		S	0	S	+0	(ASTM E112)		ASTM E-10		77 (ASTM E-3		381)						100% Bars checked for Mix-Up by PMI & Spark - Found OK											
Spec	2.0			1.0 0.5		0.5		1.0		12	14		-	5 or	finer		- 22		C2,R2,S2 Ma		•				-0	Material is free from Radioactive contamination												
Actual	d 1.5 0.5 0.5		5 0	0	0 0			0		-	7			. 7	7.5		.21	Better Than C		C2R252				. 3	<del>*</del> 6													
-	REMAR																																					
To make	-		-		3739 Gra			_				_																			******							
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	Arshad Khan													MAL	IESH											Fin	,	ancome;										
	Prepared By															viewed &		I D.									Ranjan Das											
Dani	io:IMSR/	/OA/70	Dav. N	01.0			1000				_		_					Ke	viewed &	x issued	иву										Author	ised Sig	natory					