

SLR METALIKS LIMITED

Sy.No.632, Narayanadevarakere, H.B.Halli, Tq. Bellary District, 583 222

TEST CERTIFICATE

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1. CHEMICAL COMPOSITION	Refer Remarks	CUSTOMER SPECIFICATION	M/S SSB ENGINEERS PVT.LTD	CUSTOMER NAME	
:		54935	HEAT NO. GRADE	MBF-EOF-	P	
		16MnCr5	GRADE	MBF-EOF-LRF-VD-CCM-EMS-AMLC- RMS	PROCESS ROUTE	
		60 DIA	SIZE	EMS-AMLC-	E	
		14.15:1	REDUCTION RATIO	200x200	BLOOM SIZE	(11 11 11
		5500 TO 6000	LENG'I'H		SUP	1
		1/2 Pink 1/2 Green	COLOUR CODE	As Rolled	SUPPLY CONDITION	
		35.060	QUANTITY (MT)	25031231	TC NO.	
HO CH CH		17	BUNDLE	SE24Y-17540 25-Mar-2025	INVOICE NO.	
		JH05DU3260	VEHICLE NO	25-Mar-2025	DATE	
C	an	neo	d w	ith	OK	E

						Catton.	мести	The cascomer specification.	orre core	9 60				1						1	0 Crad	2. Dimension tolerence: as per 18 3730 Grade	200 000	tolerence	ension	2.Din
			Total State of the last			1	dia	tomor	the cus	ing to	onform	i.	5. Material	6.			6.2024	1. Cust Spec Graziano Specifications QF1001, Rev No.03, Dtd: 14.06.2024	No.03, I)1, Rev	QF100	fications	o Speci	Grazian	st Spec	1. Cı
																									b. REMARKS	o. REA
									1	OK		C2R2S2	C Re	0.23	7	7		'	, 		0.5	0.0 0.5	0.0	0.5 0.0	1.0 0.5	Actual
	On	ıminati	e conta	dioactiv	rom rac	is free f	Material is free from radioactive contamination	M.	1	,		C2,R3,S3	 	0.6%of dia	-	5-8		,		+	1.0	0.5 1.0	0 0.5	5 2.0 1.0		Spec
und OK	ark - Fo	1S % 11	by PM	Nix-Up	ed for l	s check	100% Bars checked for Mix-Up by PMI & Spark - Found OK	10	1	(IS 4075)	0	TM E-381)	_	ASTM E-1077		(ASTM E112)	S+0	0	co		н	н	H	H	H	
al is free	; Materi	OK &	Found	МРІ -	ked by	rs Checace defe	100% Bars Checked by MPI - Found OK & Material is free from surface defects	fr 15						(mm)				'		S	ש		C	B	- >	
	OK	Found	UT - 1	Manua	ked by	rs Chec	100% Bars Checked by Manual UT - Found OK		UPSET	STEP		MACRO- STRUCTURE		TOTAL		GRAIN SIZE	(2)	DIN RATING (As Per DIN 50602)	(As Per			(ASTM E45)	ASTM E45)	INCL		
											TESTS	5. OTHER TESTS	57										2 1	RAPHY	4. METALLOGRAPHY	4. ME
	'	'	'	-	22.0	23.4 2	25.5	27.0	31.5	39.3	43.1	Actual	,'		162-167	Actual	_	36.9		_	-	16.2	1072		942	Actual
	-	-	-	-	26.5	27.5	29.0	31.5	35.5	40.5	44.0	Max	'	77-	240	Max		1			,		1370			Max
	-	-	-	'	20.0	21.0 2	22.5	25.0	29.0	34.5	39.0	Min	'		,	Min		25		. *=		00	1030		735	Min
	-	1	1	'	J30	J25	J20	J15	J10	J5	J1.5				As Rolled (BHN)			(Charpy) (RT) kgf/cm ²	(RT)		1	% EL	N/mm ²		N/mm²	
					3848)	RD: IS	FANDA	JOMINY DISTANCE UNIT: mm (STANDARD: IS 3848)	UNIT:	TANCE	NY DIS	IMOL		NESS	HARDNESS		ed) IS	IMPACT TEST (Quenched & Tempered) IS	IMPA)uenched	<u></u>	M E8	TENSILE, PROPERTIES nched & Tempered) AST	LE PRO	0	3	
	The second		er Pro				HRC)	3. JOMINY HARDENABILITY (in HRC)	NABIL	HARDE	ANIM	3. JC											ES	2. PHYSICAL PROPERTIES	SICAL	2. PHY
	,	15.3	73.5	1.30	0.001		0.0004	0.0001	0.0010	0.0012	0.0002	0.0020	0.0006	0.0004 0.0008 0.0006 0.0020 0.0002 0.0012 0.0010 0.0001 0.0004 0.0049	_	0.018	0.006 0.0030	0.029 0.0	0.019	0.009	2 1.050	13 0.022	1.260 0.013	0.280 1.	0.175	Actual
	,	20.0	120.0	2.50	'	,	1	43	Į.	1	,	•	0.0020	/ Ša	0.0005	0.300	<u>'</u>	0.050	0.300	0.100	1.100	20 0.030	1.300 0.020	0.400 1.	0.180	Max
,	,		60.0	'	,	١	1		,	1	ı	,	1				<u>'</u>	0.020	'		0.800	0.015	1.000 -	0.150 1.	0.130	Min
	,	(ppm)	(ppm)	H2 (ppm)	Zr	Co	Bi	W	Pь	Sn	Sb	As	Ca	Nb	В	i Cu	II.	A1	N	Мо	Ç,	co.	Mn P	Si Si	С	%
																							NOITI	1. CHEMICAL COMPOSITION	MICAL	1. CHI
03269 O'CLOUTE	0110			L							-			The same					-			STATE OF THE PERSON NAMED IN				

Doc.No.IMSR/QA/70 Rev No.01, Rev Date:24.04.2024

Prepared By Diwakar H

Reviewed & Issued By Mallesh Naik M Halles

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Prairied Angadi

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3. Microstructure: Uniform Ferrite + Pearlite 2.Dimension tolerence: as per IS 3739 Grade - 1

7.Inspection Certificate as per EN10204:2004, type 3.1

4.Banding Ok As per UNI-8449 Grade IV

5.The material is comply with ROHS (Pb,Cd,Hg,Cr+6) permissible limits.

Drunkan H

