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



CERTIFICATE

				8. ins	7. Ma	6. Th	5. 10	4. 10	3. Ba	2. Mi	1. D	VL R	Actual	Spec		* - 07		A. W	Actual	Max .	Min			П. РВ	Actual	Max	Min	1	As per mail			
		7		8. Inspection Certificate as per EN10204:2004, type 3.1	7. Material is conforming to the customer specification.	6. The material is comply with ROHS (Pb,Cd,Hg,Cr+6) permissible limits.	5. 100% UT done as per ASTM A388 & found Ok.	4. 100% MPI done as per ASTM E1444-12 & found Ok.	3. Banding is Ok As per UNI 8449:1983 Grade IV.	2. Microstructure: Uniform Ferrite + Pearlite	1. Dimension tolerence: as per IS 3739 Grade	VL REMARKS:	1.5	2.0	T	A		V. METALLOGRAPHY	10		735	YS (MPa)		II. PHYSICAL PROPERTIES	0.160	0.180	0.130	L CHEMICAL COMPOSITION	As per mail dtd 18.03.2021 From Mr. Panchanan Mishra. QF 1001, Rev3, Dtd 14.06.2024			
				tificate as	nforming to	s comply w	as per AS	ne as per A	As per UNI	e: Uniform	tolerence		0.0	1.5	н		INCL	RAPHY	1033		35	Pa)	(Quen	ROPERTII	0.255	0.400	0.150	OMPOSIT	2021 From	cus	<u>×</u>	
				per EN102	the custo	ith ROHS	TM A388 8	STM E144	8449:198	Ferrite + F	as pe		0.5	2.0	Ŧ		INCLUSION RATING (ASTM E45)		1162	1370	1030	OTS (Mpa)	TENSILE PROPERTIES (Quenched & Tempered) (ASTM A370)	S	1.220	1.300	Mn	NOI	Mr. Panch	CUSTOMER SPECIFICATION	M/S SSB ENGINEERS PVT	CUSTOMER NAME
				204:2004,	omer spe	(Pb,Cd,H _l	k found ር	4-12 & fo	3 Grade I	Pearlite	r IS 37		0	1.0	н	8	TING (A		62	70	30	<u> </u>	PROPE		2.0	0.020	י י		ıanan Mi	PECIFIC	GINEER	ER NAN
D.	Ã			type 3.1	cification	5,Cr+6) p)k.	und Ok.	.<		39 Grad		0	0.5	H	C	STM E49		16.2		8	% EL	RTIES (ASTM A		0.025	1	S S		shra. QF	ATION	S PVT	Œ
Diwakar H	Drunkar H		-		1.	ermissib					le - 1		•	0.5	н				2			_	370)		1.045	-	0.800 C _T		1001, Re			
ļ	2 1					le limits.	7			Ţ			0.5	1.0	H	Ð					Ŀ	% RA			0.007 0.	0.100 0.	. Mo		v3, Dtd :			
9.1													0.5	1.0	H				_				l la		0.015 0.0	0.300 0.0	- N		14.06.20			
			•										Ľ ,		S	2						æ	I (Chr (Que		0.034 0.030	0.050 -	Al Alsol	- 3		HE		
						1									0		(As per DIN 50602)		38.5		25	(RT) V-Notch (2mr (IMPACT TEST (Charpy) (ASTM E23) (Quenched & Tempered)		0.007		· 01		53401	HEAT NO.	MBF-E	
															S	•	(As per DIN 50602)					1 (2mr 👌 s)	TEST STM E23 Tempere		0.00		. =				OF-LRF-V	PRO
					-										S+0		ING (2)					1	وق		0.019	0.300	. ნ		16MNCR5	GRADE	D-CCM-E	PROCESS ROUTE
Reviev												S = ()	8	5-8	(ASTM E112)		GRAIN	16.	Actual	Max	Min			7.0	0.0004 0.0011	0.0005	в				MBF-EOF-LRF-VD-CCM-EMS-AMLC-RMS	UTE
													200				0,		168-172	260		As Rolled (BHN)	HARDNESS	000 120 120 120 120 120 120 120 120 120		. 0.	, \$		60 DIA	SIZE (mm)	C-RMS	
	*DISHINGTO_STRTOTTISSTHAN1ENIMENCINT_II											20.75	0.20	0.60mm Max	ASTM E-1077	ECAND	TOTAL		2		_				0.0007 0.0010		Ca As		,	200	_	
											¥			10	Z.F)			-			150	SS		0.0004				14.15:1	REDUCTION RATIO	200×200	BLOOM SIZE
Prashanth B Reviewed & Issued By	DF718674HA-31E							150					Better Than C2R2S2	C2,S3,R3 Max	(ASTM E-381)		MACROSTRUCTURE	V. OTI	6						0.0010	.C	. Sn		12	N RATIO	00	SIZE
B ued By	PACHAMENT								16				CZRZS2	Max	-381)		UCTURE	V. OTHER TESTS	Actua	Max	Min	1000	Bert rava	ķ(,	0.00		Pb .					
																		TS.	Actual 42.2	44.0	39.0	J1.5		III. JOMINY HARDENABILITY (in HRC)	0.0001	Ŀ	. ¥		5500 TO 6000MM	LENGTH (mm)		
			3	S	В	E	N		2				웆		(IS 4075)		STEP DOWN		37.5	39.0	35.0	J5		AH ANI	0.0003 0.0063 0.001		. 🗷		MM000	H (mm)		
			No. of	77	1	1			15.00	The state of the s			_	_			₹		30.0	35.5	29.0	J10		RDENA	0.0063		. ზ	S				SU
	12.7		9	Ó	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	200			10 7	The second							UPSET		26.9	31.5	25.0 2	J15 .		вшту		•	Zr a				As R	SUPPLY CONDITION
		7/2					S)	*				Ma	100	7.8			23.1 2	29.0 2:	22.5 2:	J20 J	290. T	(in HRC	5.5 1.	2		AIN DE HO		0	As Rolled	ONDITI
		*	ST	(1	A	1	*	C						terial is f)% Bars d)% Bars C)% Bars C		22.1 20	27.5 26	21.0 20.0	J25 J30	(Dista		1.33 62.3	2.50 120.0		Z Z	PINK + GREEN	COLOUR CODE		ON
		7												Material is free from Radioactive contamination	100% Bars checked for Mix-Up by PMI & Spark - Found OK	hecked by	100% Bars Checked by Manual UT - Found OK		20.5	26.5	6	0	(Distance Unit: mm) (Standard:153848)	1000	<u>نا</u>				REEN	CODE		
-11-12		1												Radioactiv	r Mix-Up	MIPI - Fo	Manual			Ľ	·		mm) (Sta		2	20.0	(ppm)	3				
>		17				T.								ve contan	by PMI &	und OK 8	UT - Four			ŀ			andard : IS		Ŀ	·				-		
uthorised	Panian Das	E												nination	Spark - F	Materia	NO DE		·	Ľ	·		3848)		Ŀ		•		SE24Y-13846	INVOICE		
Authorised Signatory	, , ,														ound OK	is free fr	p)		Ŀ		ŀ				Ŀ	٠.	• •			NO.	25010931	TC NO.
-	/ L2	-														100% Bars Checked by MPI - Found OK & Material is free from surface defects			Ŀ						Ŀ		+		31.670	M VIO)931	io.
																e defects				'		'			Ŀ	ŀ			16	BUNDLE		
							- 1	The same												-		<u> </u>			·	•			SOHL	VE	22-1;	D,
								7					Towns of the last					Q.	***	+			1		_	<u> </u>	·		JH05DU1185	NO.	22-Jan-2025	DATE