

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



TEST CERTIFICATE

CUSTOMER NAME		PROCESS ROUTE			BLOOM SIZE (mm)		SUPPLY CONDITION		TC NO.		DATE	
M/S SSB ENGINEERS PVT		MBE-EOI-LRF-VD-CCM-EMS-AMIC-RMS			200x200		As Rolled		25010935		22-Jan-25	
CUSTOMER SPECIFICATION		HEAT NO.	GRADE	SIZE (mm)	REDUCTION RATIO	LENGTH (mm)	COLOUR CODE	INVOICE NO.	QTY (MT)	BUNDLE	VEHICLE NO.	
As per mail dtd 18.03.2021 From Mr. Panchanan Mishra, QF 1001, Rev3, Dtd 14.06.2024		53400	16MNCRS	60 DIA	14.15:1	5500 TO 6000	PINK + GREEN	5E24V-13850	8.740	5	JH05DU1189	

I. CHEMICAL COMPOSITION

%	C	Si	Mn	P	S	Cr	Mo	Ni	Al	Abol	V	Ti	Cu	B	Nb	Ca	As	Sb	Sn	Pb	W	Bi	Co	Zr	AINR	H2	N2	O2
Min	0.130	0.150	1.000	-	0.015	0.800	-	-	0.020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.1	60.0	-	-
Max	0.180	0.400	1.300	0.020	0.030	1.100	0.100	0.300	0.050	-	-	-	0.300	0.0005	-	0.0010	-	-	-	-	-	-	-	-	-	2.50	120.0	20.0
Actual	0.162	0.195	1.230	0.012	0.025	1.040	0.005	0.015	0.026	0.0001	0.007	0.0021	0.020	0.0004	0.0011	0.0006	0.0010	0.0002	0.0012	0.0010	0.0001	0.0003	0.0061	0.001	3.0	1.64	66.2	14.9

II. PHYSICAL PROPERTIES

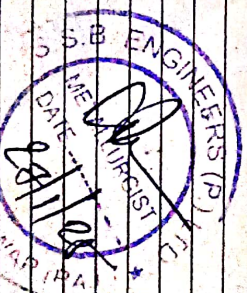
TENSILE PROPERTIES (Quenched & Tempered) (ASTM A370)				IMPACT TEST (Charpy) (ASTM E23) (RT V-Notch 2mm)		HARDNESS (Distance Unit: mm) (Standard : IS 3048)														
YS (MPa)	UTS (MPa)	% EL	% RA		As Rolled (quits)		J1.5	J5	J10	J15	J20	J25	J30	-	-	-	-	-	-	-
735	1030	8	-	25	-	Min	39.0	35.0	29.0	25.0	22.5	21.0	20.0	-	-	-	-	-	-	-
-	1370	-	-	-	260	Max	44.0	39.0	35.5	31.5	29.0	27.5	26.5	-	-	-	-	-	-	-
1052	1142	14.1	61.2	37.2	162-169	Actual	42.0	37.4	29.7	26.2	23.5	22.1	20.5	-	-	-	-	-	-	-

IV. METALLOGRAPHY

INCLUSION RATING (ASTM E45)				INCLUSION RATING (As per DIN 50602)				GRAIN SIZE	TOTAL DECARB (%)	MACROSTRUCTURE	STEP DOWN	UPSET
A	B	C	D	S	O	S+O		(ASTM E112)	ASTM E-1077	(ASTM E-381)	(IS 4075)	-
* T	H	T	H	T	H	T	H	DS	-	-	-	-
Spec	2.0	1.5	2.0	1.0	0.5	0.5	1.0	1.0	-	-	-	-
Actual	1.0	0.5	0.5	0	0	0	0.5	0.5	-	-	-	-

VI. REMARKS:

1. Dimension tolerance: as per IS 3739 Grade - 1
2. Microstructure: Uniform Ferrite + Pearlite
3. Banding is OK As per UNI 8449:1983 Grade IV.
4. 100% MPI done as per ASTM E1444-12 & found OK.
5. 100% UT done as per ASTM A388 & found OK.
6. The material is comply with ROHS (Pb,Cd,Hg,Cr+6) permissible limits.
7. Material is conforming to the customer specification.
8. Inspection Certificate as per EN10204:2004, type 3.1



Ashad Khan
Prepared By

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Reviewed & Issued By

Authorized Signatory