

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

# SLR Metaliks Limited

## TEST CERTIFICATE



CUSTOMER NAME		PROCESS ROUTE		BLOOM SIZE (mm)		SUPPLY CONDITION		TC NO.		DATE	
M/S 558 ENGINEERS PVT.LTD.		MB-EOI-LRF-VD-CCM-EMS-AMLC-RMS		200x200		As Rolled		2410508		22-Nov-2024	
CUSTOMER SPECIFICATION		HEAT NO.		GRADE		SIZE (mm)		REDUCTION RATIO		LENGTH (mm)	
TDS No. 01, Rev No. 01, Rev date 07.03.2021 (Ref Std: DANA QF 1001, Rev 03, Date 14.05.2024)		51986		35CRMN5		70 DIA		10.39:1		5910-40MM	
COLOUR CODE		INVOICE NO.		QTY (MT)		BUNDLE		VEHICLE NO.			
ORANGE		5524V-10518		34.19		17		R02G395			
I. CHEMICAL COMPOSITION											
%	C	Si	Mn	P	S	Cr	Mo	Ni	Al	As	Sb
Min	0.330	0.150	0.800	-	0.015	1.000	-	-	0.020	-	-
Max	0.400	0.400	1.100	0.020	0.030	1.300	0.100	0.300	0.050	-	-
Actual	0.372	0.235	1.060	0.012	0.025	1.275	0.010	0.017	0.029	0.007	0.0041
II. PHYSICAL PROPERTIES											
TENSILE PROPERTIES (Openended & Tempered) (ASTM E8)				IMPACT TEST (Charpy)				HARDNESS			
Y5 (MPa)				UTS (MPa)				As Rolled (HRC)			
Min 685				880				Min 52.5			
Max -				1080				Max 58.0			
Actual 970				1054				Actual 57.4			
III. JOHNSON HARDENABILITY (in HRC)											
(Distance Unit: mm)											
J1.5 J3 J5 J7 J9 J11 J13 J15 J20 J25 J30											
51.3 50.5 48.3 44.1 39.7 38.8											
IV. METALLOGRAPHY											
INCLUSION RATING (ASTM E43-13)				INCLUSION RATING (As per DIN 50602)				GRAIN SIZE			
A				B				C			
T				H				T			
Spec 2.0				1.5				2.0			
Actual 1.5				0.5				0.5			
V. OTHER TESTS											
100% Bars Checked by UT - Found OK				100% Bars Checked by MPI - Found OK & Material is free from surface defects				100% Bars checked for Mix-Up by PMI & Spark - Found OK			
Material is free from Radioactive contamination											
VI. REMARKS:											
1. Dimension tolerance: as per IS 3739 Grade - 1											
2. Microstructure: Uniform Ferrite + Pearlite											
3. The material is comply with ROHS (Pb,Cd,Hg,Cr+6) permissible limits.											
4. Material is conforming to the customer specification.											
5. Inspection Certificate as per EN10204:2004, type 3.1											
Prepared By: Divakar H											
Reviewed & Issued By: Mruthynjaya											
Authorized Signatory: Ranjan Das											