

SLR Metaliks Limited

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



TEST CERTIFICATE

CUSTOMER		VE COMMERCIAL VEHICLES LIMITED				PROCESS ROUTE		TRUCK NO		P80559546		TC NO		18051010	
						BF-EQF-LRT-VD-CCM-RMS		INVOICE NO		5E18Y-02506		DATE		25.05.2018	
CUSTOMER SPECIFICATION						GRADE		SECTION (mm)		QUANTITY (Mt)		LENGTH (IN Mtr)		4 TO 6	
SUPPLY CONDITION						HEAT NO		75 RCS		3		COLOR CODE		Half Red Half White with Blue Dot	
AS ROLLED						5739		20MnCr5		6.210					
						REDUCTION RATIO									
						7:1:1									

%	C	Si	Mn	P	S	Cr	Mo	Ni	Al	Sn	Al	V	Ti	Cu	B	INb	Ca	As	Sb	Sn	Pb	W	Bi	Co	Zr
Min	0.17	0.15	1.10	-	-	1.00	-	-	0.020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Max	0.22	0.40	1.40	0.035	0.035	1.30	-	-	0.040	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Actual	0.17	0.21	1.12	0.012	0.028	1.054	0.006	0.017	0.026	-	-	0.005	0.0023	0.017	0.0004	0.0011	0.0009	0.0016	0.001	0.0013	0.001	0.0017	0.0001	0.0052	0.001
	H2(ppm)	N2(ppm)	O2(ppm)	CE	DI	Bsol																			
Min	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Max	2	90	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Actual	1.15	85.2	16.5	0.57	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Test Condition	YS	UTS	%EL	%RA	Impact Strength (J)	Hardness	Grain Size (ASTM E112)	Decarb (mm)	Banding (Microns)	Step Down	UPSet	Macro etch (ASTM E-381)	100% UT & MPI & SPARK DONE
Tensile	-	-	-	-	-	BHN	-	-	-	-	-	-	-
Min	-	-	-	-	-	BHN	-	-	-	-	-	-	-
Max	-	-	-	-	-	BHN	220	-	-	-	-	-	-
Actual	-	-	-	-	-	BHN	170-175	-	-	-	-	-	-
Inclusion Rating (As per ASTM E-45)													
	A	B	C	D	H	T	H	T	H	T	H	T	H
Spec	2.5	1.0	2.0	1.0	2.0	1.0	5-8	1%	Max	-	-	-	-
Actual	2.0	1.0	1.0	-	-	-	7	0.22	-	-	-	-	-

100% UT & MPI & SPARK DONE	FREE FROM RADIOACTIVE ELEMENTS	FREE FROM DEFECTS	OK
-	-	-	-

Dimension tolerance as per IS 3739 Grade-I.

Remarks: Uniform Pearlite + Ferrite.

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PREPARED BY
CHANDRASHEKHAR B

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AUTHORISED SIGNATORY
C.M.WALVEKAR