

SLR Metaliks Limited

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



TEST CERTIFICATE

CUSTOMER	VE COMMERCIAL VEHICLES LIMITED										PROCESS ROUTE		BLOOM SIZE (mm)		TRUCK NO	RI07GC6447	TC NO	18051213	
											BF-EOF-LRF-VD-CCM-RMS		200X200		INVOICE NO	SE18Y-02775	DATE	28.05.2018	
CUSTOMER SPECIFICATION										HEAT NO		SECTION (mm)		NO OF BUNDLES		QUANTITY (Mt)		LENGTH (IN Mtr)	
SUPPLY CONDITION										5925		56 DIA		5		12.110		4 TO 6	
AS ROLLED										16.2: 1								COLOR CODE	
																		Half Red Half White with blue dot	

CHEMICAL COMPOSITION																										
%	C	Si	Mn	P	S	Cr	Mo	Ni	Al	Sol Al	V	Ti	Cu	B	Nb	Ca	As	Sb	Sn	Pb	W	Bi	Co	Zr		
Min	0.17	0.15	1.10	-	0.015	1.00	-	-	0.017	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Max	0.22	0.40	1.40	0.035	0.035	1.30	-	-	0.040	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Actual	0.18	0.25	1.22	0.021	0.025	1.06	0.006	0.015	0.030	-	0.006	0.0026	0.01	0.0003	0.0012	0.0009	0.0015	0.0055	0.0007	0.0002	0.0004	-	0.0047	0.001		
	H2(ppm) N2(ppm) O2(ppm)										CE		DI		Bsol											
Min	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Max	2	90	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Actual	1.60	86.7	16.5	0.59	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

PHYSICAL PROPERTIES																	
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)	SURFACE DEFECTS			
Tensile	Min	-	-	-	-	-	BHN	220	-	-	-	-	-	100% UT & MPI & SPARK DONE			
	Max	-	-	-	-	-	BHN	163-167	-	-	-	-	-	FREE FROM RADIOACTIVE ELEMENTS			
	Actual	-	-	-	-	-	BHN	163-167	-	-	-	-	-	FREE FROM DEFECTS			
Inclusion Rating (As per ASTM E-45)														OK			
		A	H	T	B	H	T	C	H	T	D						
Spec	2.5	1.0	2.0	1.0	2.0	1.0	2.0	1.0	2.0	1.0	1.0						
Actual	2.0	0.5	1.0	-	-	-	7	0.20	-	-	-						

Dimension tolerance as per IS 3739 Grade-I.

Remarks: Uniform Pearlite + Ferrite.

[Signature]
 PREPARED BY
 CHANDRASHEKHAR B

[Signature]
 AUTHORISED SIGNATORY
 C.M.WALVEKAR