MUKAND SUMI SPECIAL STEEL LIMITED.

Hospet Road, Kanakapura Village, Koppal, Karnataka, 583228

Tel: 91-08539-286603-08 (6 lines) TEST CERTIFICATE



CUSTOMER : SSB ENGINEERS PV	TLTD		Invoice No: 90	23153838	PR	OCESS ROUTE	TC NO. K201030 DATE 24.02.2025			
	1.0		EOF-LRF-VD-C	CM(EMS + AMI	TRUCK NO: RJ02GC5242					
CUSTOMER		HEAT NO	GRADE	SECTION	COLOR CODE	SUPPLY	LENGHT	OVALITY	NO.0F	QUANTITY
SPECIFICATION NO				(IN mm)		CONDITION	(IN Mtrs.)	(IN mm)	PUCES	(MTS)
MET-W-04 Issue No 17 Dt 01 09 2015		M201030	16MNCR5ALN	60 ROUND	Half White + Gray	AS ROLLED	5 00 TO 6.00	AS PER IS	91	11,220
								3739		

CHEMICAL COMPOSITION

	%C	%Si	%Mn	%P	%S	%Ni	%Mo	%Cr	%Cu	%Al	%Sn	%V	N ₂ ppm	O ₂ ppm	H ₂ ppm	%Ti	CaPPM	Bppm	%As	%Sh	9,01%
REQ	0 140/0 190	0 150 0 400	1.000/1.300	0 035Max	0 035Max	0 250Max		0 800/1 100	0.300Max	0.020Min		0.010Max	80 0/110 0	20 0Max	2 00Max	0 003Max	20 000Max	5.000Max			
ACT	0 1820	0.2380	1.2330	0.0140	0.0180	0.0230	0 0090	1 0180	0.0140	0.0220	-	0.0040	98 000	16 000	1.480	0.0020	11.0000	1,0000			

MECHANICAL PROPERTIES

	TENSILE VALUES			IMPACT	HARDNESS	JOMINY VALUES (HRC)										D.L	
	YS	UTS	%EL	%RA	STRENGTH (IZOD/CHARPY)	(BHN)	J13mm										VALUE
REQ						240 BHN MX	24/31									<u> </u>	
ACT						161	28 0					-					

METALLURGICAL PROPERTIES

	SPARK/ SPECTRAL	STEP	MACRO ETCH RESULTS(ASTM		I	NCLUSIO Metho	ON RATIN d 'A' Plate)		GRAIN SIZE (ASTM	SURFACE DEFECT	CORE HARDNESS	UPSET TEST	TOTAL DEPTH OF DECARBURIZATION
1	TEST	TEST	E-381)	T	Н	B T	Н	C T	Н	T	Н	E-112)	LEVEL (mm)	(OILQUENCH (HRC)	RESULTS	IN mm
REQ	ОК	ОК	C2R2S2Max	2.0	2.0	1.0	1.0	1.0	1.0	1.5	1.5	6 to 8	OK	NA	NA	0.40 mm Max
ACT	ОК	OK	<c2 r2="" s2<="" td=""><td>1.5</td><td>0.5</td><td>0.5</td><td>0.0</td><td>0.0</td><td>0.0</td><td>1.0</td><td>0.5</td><td>7.0</td><td>ОК</td><td>NA</td><td>NA .</td><td>0.37</td></c2>	1.5	0.5	0.5	0.0	0.0	0.0	1.0	0.5	7.0	ОК	NA	NA .	0.37

RUMARKS 1 BLOOM SIZE 240X280MM2 REDUCTION RATIO 1:23.76

2 MPLTEST 100% DONE & FOUND OK.

3 STEP DOWN TEST OK AS PER JIS . G0556-1977.

4 MICROSTRUCTURE OK

5 REQ AL/N2 : 2 0/3 0, ACT: 2 24.

6."MATERIAL IS FREE FROM RADIO ACTIVE ELIMENTS".

PREPARED BY

QF.NO.HS / QA/ 10.01 DG.Rev.01 Dtd : 23.02.2015

AUTHORISED SIGNATORY

K.POMESH(Sr.GM-QAD)

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