MUKAND SUMI SPECIAL STEEL LIMITED.

Hospet Road, K Tel

Kanakapura Village, Koppal, Karnataka, 5 el : 91-08539-286603-08 (6 lines) TEST CERTIFICATE

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	MET-W-04 Issue No. 17 Dr. 01 09 2015	CUSTOMER		CUSTOMER: SSB ENGINEERS PVT.LTD.
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	M202170	HEAT NO		4
IOMINCROALIN	16MAICBEATN	GRADE	-	Invoice.No: 9023154852
*	(IN mm)	SECTION		023154852
rant mine con)	Half White + Grav) AS ROLLED	COLOR CODE	EOF-LRF-VD-C	PR
	AS ROLLED SSON AS HER IS	SUPPLY	EOF-LRF-VD-CCM(EMS + AMLC)-R MILL TRUCK NO: RJ06GD1143	PROCESS ROUTE
5500 - 0000	(IN Mtrs.)	LENGIIT.	C)-R MILL	
3739	(IN mm)	TENGITE OVALITY NO.OF QUANTITY	TRUCK NO:	TC NO. K202179 DATE:26.03.2025
313	PHECES	NO.OI:	RJ06GD114.	2179 DATE:2
41.200	(MIS)	ALILINVID	3	6.03.2025

CHEMICAL COMPOSITION

			0000.1	14.0000		0.0040 88.000 9.000 1.530 0.0020	9.000	88.000	0.0040		0.0260	0.0120	0 1.0200	0.008	0.0220	0.0210	0.0190	1.1530	0.2330	0.1670	TOV
			5.000Max	0.010Max 80.0/110.0 20.0Max 2.00Max 0.003Max 20.000Max 5.000Max	0.003Max	2.00Max	0 20.0Max	80.0/110.0	0.010Max		0.020Min).300Max	0.800/1.100		0.250Max	0.035Max 0.250Max	0.035Max	0.150,0,400 1.000/1.300 0.035Max	0.150/0.400	0.140/0.19	REQ
4d%	%Sh	%As	M Bppm	CaPP	%Ті	H ₂ ppm	N ₂ ppm O ₂ ppm H ₂ ppm	N ₂ ppm	%V	%Sn	%A1	%Cu	%Mo %Cr	%Mo	%Ni	%S	%P	%Mn	%Si	%C	

MECHANICAL PROPERTIES

•	_					26.0	154						V(.1.
	\$					24/31	240 BHN. MX 24/31						REQ
SUTIVA					_	J13mm	(BHN)	STRENGTH (IZOD/CHARPY)	%RA	%EL	UTS	ΥS	
•					9								
D.I.		HRC)	JOMINY VALUES (HRC)	JOMINY			HARDNESS	IMPACT	•	TENSILE VALUES	TENSILE		

METALLURGICAL PROPERTIES

	SPARK/	STEP	MACRO ETCH		Ι	NCLUSIO	ON RATI	INCLUSION RATING (ASTM - E - 45)	Л-Е-45)		GRAIN SIZE	SURFACE	CORE	UPSET:	TOTAL DEPTH OF
	SPECTRAL	DOWN	RESULTS(ASTM			Metho	d 'A' Plate	Method 'A' Plate I(Worst Fields)	Fields)			(ASTM	DEFECT	HARDNESS	J.SH.L.	DECARBURIZATION
	TSET	TEST	E-381)	Α		В	-	C		þ		E-112)	LEVEL (mm) (OILOUENCII RESULTS	(OILOUENCI!	RESULTS	Z IIIII
				Т	Н	Н	Н	Т	Н	T	Н			(LIRC)	-	
REQ	NO	ОК	C2R2S2Max	2.0	2.0	2.0 1.0 1.0		1.0	1.0	1.5	1.5	6 to 8	OK	NA	NN	0.40 mm Max
J. JV	OK	OK	<c2 r2="" s2<="" td=""><td>1.5</td><td>1.5 0.5 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>OK</td><td>NN</td><td>NN</td><td>0.36</td></c2>	1.5	1.5 0.5 0.5	0.5	0.0	0.0	0.0	1.0	0.5	7.0	OK	NN	NN	0.36
RIN	IARKS LBLOOR	M SIZE:240X2	REMARKS 1 BLOOM SIZE:240X280MM2.REDUCTION RATIO:1:23.76.	\ATIO:1:23.	76.				0 10	5.REQ.AL/1 5."MATERI	N2:2.0/3.0 AL IS FRE	5.REQ AL/N2 : 2.0/3.0, ACT:2.95 6."MATERIAL IS FREE FROM RADIO A	5.REQ AL/N2 : 2.0/3.0, ACT:2.95 6."MATERIAL IS FREE FROM RADIO ACTIVE FLIMENTS"			-
_	- 100	31.100/0 200	ML & LOOKE OFF					Price Company						-		

PREPARED BY

3 STIEP DOWN TEST: OK AS PER JIS: G0556-1977.

4 MICROSTRUCTURE :OK

QF.NO.11S / QA/ 10.01 DG.Rev.01 Dtd: 23.02.2015

AUTHORISED SIGNATORY K.POMESH(Sr.GM-QAD)

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