

KALYANI STEELS LTD - HOSPET DIVISION

Hospet Road, Ginigera - 583228 Taluka & Dist: Koppal, Karnataka.

Telphone: 08539 - 286603-08 (6lines) Telefax: 08539 -286611 TEST CERTIFICATE



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	94.01.2025	3	NO.OF QUANTITY	(MTS)	11 250	00011
が発	TC NO. K199296 DATE.04.01.2025	: RJ14GK497.	NO.OF	PIECES	57	6
MARKET (おは)は、100回	TC NO. K19	TRUCK NO:	LENGHT OVALITY	(IN mm)	AS PER IS	3739
	50000000	C)-R MILL	LENGHT	(IN Mtrs.) (IN mm)	5 TO 6 METER	
	PROCESS ROUTE	EOF-LRF-VD-CCM(EMS + AMLC)-R MILL TRUCK NO: RJ14GK4973	SUPPLY	CONDITION	AS ROLLED	
	PRO	EOF-LRF-VD-C	SECTION COLOR CODE	- L	70 ROUND HALF(RED+WHITE) AS ROLLED 5 TO 6 METER AS PER IS	
	Invoice.No: 9043035696		SECTION	(IN mm)	70 ROUND	
			GRADE		20MNCR5	
			HEAT NO		K199296	
	PVT LIMITED		4	ėva		
M. Company	CUSTOMER: S S B ENGINEERS PVT LIMITED	2	CUSTOMER	SPECIFICATION NO	Q.F 1001,Rev 03, Date : 14.06,2024	

CHEMICAL COMPOSITION

%Pb		
qS%		
%As		
Bppm	5.000Max	1.0000
СаРРМ	10.000Max	0000.6
%Ti		
H ₂ ppm	2.50Max	1.570
O ₂ ppm	20.0Max	12.000
N ₂ ppm	60.0/120.0	92.000
Λ%		
%Sn	Œ	
%Al	0.020/0.050	0,0300
%Cn	0.300Max	0.0140
%Cr	1.000/1.300	1.2800
%Mo	0.100Max 1	0,0050
%Ni	0.300Max	0,0260
. S%	0.015/0.030	0.0180
%P	0.020Max	0.0160
%Mn	1.000/1.300	1.2200
%Si	0.150/0.400	0.2710
2%C	0.150/0.200	0.1950
	REQ	ACT

MECHANICAL PROPERTIES

		TENSILE	TENSILE VALUES		IMPACT	HARDNESS					JOMINY	JOMINY VALUES (HRC)	S (HRC)		D.I.
	YS (NMM)	UTS (NMM)	73%	%RA	STRENGTH (IZOD/CHARPY)	(BHN)	J1.5mm	JSmm	J10mm J15mm	JI5mm	J20mm J25mm J30mm	J25mm	J30mm		VALUE
REQ	930.00Min	REQ 930,00Min 1230,00/1570 7,00Min	7.00Min		25.00Min J	240 BHN MX	41/46	38/44	32/38.5	29/35.5	27/33.5 25.5/32	25.5/32	24,5/31	1	
ACT	ACT 1035.00	1280.00	16.3		78.00 J	184	46.0	43.0	37.0	32.0	30.0	29.0	28.0		

METALLURGICAL PROPERTIES

- 38			_		_
TOTAL DEPTH OF DECARBURIZATION	IN sum	T.	0.60mm Mx	0.41	
UPSET	RESULTS		NA	NA	
CORE	\sim	(HRC)	NA	NA	
SURFACE	LEVEL (mm)		OK	OK	
GRAIN SIZE (ASTM	E-112)		5 to 8	7,0	
		Н	1.0	0.5	
•	D	Η.	1.0	1.0	
M - E - 45 Fields)		Н	0.5	0.0	
INCLUSION RATING (ASTM - E - 45) Method 'A' Plate I(Worst Fields)	U	H	0.5	0.0	
LUSION RATING (AST) Method 'A' Plate I(Worst		Н	1.0	0.0	
NCLUSIC Metho	В	Т	2.0	. 0.5	
		Н	1.5	5.0	
	A	T	2.0	1.5	
MACRO ETCH RESULTS(ASTM	E-381)	100 mm	C2R3S3Max	<c2 r3="" s3<="" td=""><td></td></c2>	
STEP	TEST	3	NA	NA	
SPARK/ SPECTRAL	TEST		OK	OK	2000
			REQ	ACT	

REMARKS: I.BLOOM SIZE:200X200MM2.REDUCTION RATIO:1:10:39.

2.MPI TEST: 100% DONE & FOUND OK.

3.BANDING: OK AS PER UNI 8449(A MAX OF GR-4 IS ACCEPTABLE)

4.ULTRASONIC TEST: OK AS PER ASTM A388,4MM FBH.



6.REQ %C.E:0.65MX, ACT: 0.0.65.

7.TENSILE/CHARPY TEST: AS PER UNI EN10002-1 UNI EN 10045-1,

8.JOMINY TEST: ASPER ISO642, DECARB TEST: AS PER ASTM E1077

9 "MATERIAL FREE FROM RADIO ACTIVE ELIMENTS".





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