

KALYANI STEELS LTD - HOSPET DIVISION

Hospet Road, Ginigera - 583228 Taluka & Dist : Koppal, Karnataka. Telphone: 08539 - 286603-08 (6lines) Telefax: 08539 -286611

TEST CERTIFICATE



Scanned with OKEN Scanner

		Q.I. 1001, Rev 02, Date: \(\delta 2.05.2020\)	SPECIFICATION NO	CUSTOMER		CUSTOMER: S S B ENGINEERS PVT LIMITED
		K202252		HEAT NO		`
CHEMICAL COMPOSITION		40CRMO4		GRADE		Invoice.No: 9043037042
OMPOSITIC		70 ROUND	(IN mm)	SECTION		43037042
Ž		FULL YELLOW		COLOR CODE	EOF-LRF-VD-C	PR
		AS ROLLED	CONDITION (IN Mirs.) (IN mm) PHECES	SUPPLY	EOF-LRF-VD-CCM(EMS + AMI.C)-R MILL TRUCK NO: NL01AF802	PROCESS ROUTE
		5 TO 6 MTR AS PER IS	(IN Mirs.)	LENGIT OVALITY	C)-R MILL	
	3739	AS PER IS	(IN mm)	A.I.TIVAO	TRUCK NO:	TC NO. K202
	230	7:0	PHECES	NO OF GUANTITY	NL01AF8021	TC NO. K202252 DATE: 29.03.2025
	004.16		(MTS)	ALLENVID		1.03.2025

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0.4280

0.2090

0.8530

0.0100

0.0260

0.0300

0.1650

1.1660

0.0120

0.0260

77.000

15.000

1.500

%0

%Si

%Mn

%P

%S

%Ni

%Mo

%Cr

%Cu

%A1

%Sn

%V

N2ppm O2ppm H2ppm 60.0/120.0 15.0Max 2.00Max

:T%

CaPPM 0.000Max 10.0000

Bppm 5.000Max 1.0000

 $%\Delta s = 10^{\circ}$

%Sh

4'l%

REQ 0.380/0.450 0.150/0.400 0.600/0.900 0.035Max 0.020/0.040 0.300Max 0.150/0.250 0.900/1.200 0.300Max 0.020/0.050

												,						
,	42.0	46.0	47.5	51.5	53.0	54.5	55.0	57.0	58.0	58.5	59.0		92.00 J		16.1	1069.00	872.00	VCI.
	39.5/51	41/53 39.5/51	44/56	48/58	53.5/60 51.5/59 49.5/59	51.5/59	53.5/60	54/60	55/61	55.5/61 55.5/61	55.5/61		25.00Min J		10.00Min	REQ 835.00Min 1030.00/1230 10.00Min	835.00Min	REQ
											(s-A2)		(IZOD/CHARPY)		1.	(NMM)	(NMM)	
:IIITIVA	mm0£f	J25mm	J20mm	J15mm	J9mm J11mm J13mm J15mm J20mm J25mm J30mm	J11mm	J9mm	J7mm	J5mm	J3mm	J1.5mm	(BHN)	STRENGTH	%RA	%EL	UTS	YS	
D.I.					S (HRC)	JOMINY VALUES (HRC)	NIMOL					HARDNESS	IMPACT	5.1	TENSILE VALUES	TENSILE		

METALLURGICAL PROPERTIES

RI:M	VCJ.	REQ				
ARKS: LBLOOM	OK	OK		TSIT.	SPECTRAL	SPARK/
M SIZE:200X2	N	NN		TEST	DOWN	STEP
REMARKS: LBLOOM SIZE:200X200MM2.REDUCTION RATIO:1:10.39.		C2R3S3Max		E-381)	RESULTS(ASTM	MACRO ETCH
ATIO:1:10	1.5	2.0	Т	A		
39.	1.5 0.5 0.5	1.5	н			
	0.5	1.5 2.0 1.0	T	В	Metho	INCLUSION RATING (ASTM - E - 45)
	0.0		Н		Method 'A' Plate I(Worst Fields)	N RATIN
	0.0	0.5	Т	C	I(Worst I	IG (ASTN
	0.0	0.5	Н		ields)	1-E-45
"MATERL	1.0	1.0	T	P)
AL IS FREI	0.5	1.0	Н			
E FROM RADIOA	7.0	5 to 8		E-112)	(ASTM	GRAIN SIZE
5."MATERIAL IS FREE FROM RADIOACTIVE ELEMENTS".	OK	OK		LEVEL (mm)	DEFECT	SURFACE
	VN	NA	(HRC)	LEVEL (mm) (OILQUENCII RESULTS	HARDNESS	CORE
	NN	VN		RESULTS	TEST	UPSET
	0.38	0 60 mm Max		IN min	DECARBURIZATION	TOTAL DEPTH OF

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

3.BANDING: OK, 4.MICROSTRUCTURE: OK.

4.UI.TRASONIC TEST: 100% DONE & FOUND OK



NIN F

AUTHORISED SIGNATORY K. Porum

K.POMESH(Sr.GM-QAD)

PREPARED BY

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