

KALYANI STEELS LTD - HOSPET DIVISION

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

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TEST CERTIFICATE



CUSTOMER : S S B ENGINEERS PV	T LIMITED	Invoice.No: 97	00005707	PRO EOF-LRF-VD-C	OCESS ROUTE CM(EMS + AML	TRUCK NO	7.10.2024 6 • OUANTITY		
CUSTOMER SPECIFICATION NO	HEAT NO	GRADE	SECTION (IN mm)	COLOR CODE	CONDITION	(IN Mtrs.)		NO.OF PIECES	(MTS)
Q.F.1001,Rev 02,Date : 12.05.2020	K196244	40CRMO4	70 ROUND	FULL YELLOW	AS ROLLED	5 TO 6 METER	AS PER IS 3739	91	16.130

CHEMICAL COMPOSITION

									CHE	MICAL C	OMPOSI					0.455	C DDV	D	%As	%Sb	%Pb	
-		4/6:	%Mn	%P	%5	%Ni	%Mo	%Cr	%Cu	%Al	%Sn	%V	N ₂ ppm	O ₂ ppm	H ₂ ppm	%Ti	CaPPM	Bppm	70713	7000		
	%C	%Si			705								60.0/120.0	15 0Max	2.00Max		10.000Max	5.000Max				
REO	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			-				6.0000	1.0000				
		0.1880	0.8590	0.0190	0.0250	0.0220	0.1560	1.1520	0.0120	0.0260			81.000	10.000	1.530		0.0000	1.0000				1
ACT	0.4190	0.1000																				

MECHANICAL PROPERTIES

	MECHANICAL PROFESTION														D.I.	1			
TENSILE VALUES IMPACT HARDNESS								JOMINY VALUES (HRC)											
					J1.5mm	J3mm	J5mm	J7mm	J9mm	J11mm	J13mm	J15mm	J20mm	J25mm	J30mm	VALUE			
	YS	UTS	%EL	%RA	STRENGTH (IZOD/CHARPY)	(BHN)	J1.JIIII	3311111											1
	(NMM)	(NMM)			(IZOD/CHARI 1)			55.5/61	55/61	54/60	53.5/60	51.5/59	49.5/59	48/58	44/56	41/53	39.5/51		1
RI	EQ 835.00Mir	1030.00/1230	10.00Min		25.00Min J		55.5/61	59.5	58.5	57.0	56.5	55.5	54.5	52.5	49.0	46.5	44.5		
AC	T 874.00	1065.00	15.8		94.00 J		60.0	39.3	38.3	37.0	50.5								1
		1	1					- TID OIL	TAT DOO	DEDTIES									

METALLURGICAL PROPERTIES

	SPARK/ SPECTRAL TEST	STEP DOWN TEST	MACRO ETCH RESULTS(ASTM E-381)	A	I	NCLUSIO Metho	ON RATII	NG (ASTMe I(Worst	M - E - 45 Fields)) T	Н	GRAIN SIZE (ASTM E-112)	SURFACE CORE DEFECT HARDNESS LEVEL (mm) (OILQUENCH (HRC)			TOTAL DEPTH OF DECARBURIZATION IN mm
200					H	2.0	1.0	0.5	0.5	1.0	1.0	5 to 8	OK	NA	NA	0.60 mm Mx
REQ		NA	C2R3S3Max	2.0	1.5		0.0	0.0	0.0	1.0	0.5	7.0	OK	NA	NA	0.38
ACT	OK	NA	<c2 r3="" s3<="" td=""><td>1.5</td><td>0.5</td><td>0.5</td><td>0.0</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></c2>	1.5	0.5	0.5	0.0									

REMARKS: 1 BLOOM SIZE:200X200MM2.REDUCTION RATIO:1:10.39.

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

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

4 ULTRASONIC TEST: 100% DONE & FOUND OK.

5. "MATERIAL IS FREE FROM RADIOACTIVE ELEMENTS".





