



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

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TEST CERTIFICATE

TC NO. K116594 DATE.02.11.2017

CHEMICAL COMPOSITION

	%Si	%Mn	%P	%S	%Ni	%Mo	%Cr	%Cu	%Al	%Sn	%V	N ₂ ppm	O ₂ ppm	H ₂ ppm	%Ti	CaPpm	Bppm	%As	%Sb	%Pb
200	0.300Max	1.100/1.400	0.025Max	0.020/0.035	0.300Max	0.080Max	1.000/1.300	0.300Max	0.028/0.050	0.030Max		90.0Min	25.00Ma		0.005Max	30.000Max	10.000/30.0		0.005Max	
60	0.2830	1.2090	0.0180	0.0280	0.1870	0.0640	1.2420	0.1250	0.0380	0.0010	0.0043	112.000	10.000	1.640	0.0030	6.0000	17.0000	0.0024	0.0001	

MECHANICAL PROPERTIES

JOMINY VALUES (HRC)

METALLURGICAL PROPERTIES

INCLUSION RATING (ASTM - E - 45)

1 BLOOM SIZE:240X280MM2 REDUCTION RATIO:1:12.43

2 ROLLED PRODUCT SIZE : 83MM DIA

3 K₄(OXIDES)<25. ACT:NIL

4 ACT: GRAIN SIZE 100%

5 ACT %NB : 0.0030

6 MPI TEST:100% DONE & FOUND OK.

7. ULTRASONIC TEST : OK

8."MATERIAL IS FREE FROM RADIO ACTIVE ELEMENTS".

EPARED BY

NO HS / OA / 10 01 DG Rev 01 Dtd: 23.03.2015

AUTHORISED SIGNATORY
K.POMESH(GM-QAD)