

KALYANI STEELS LTD - HOSPET DIVISION

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



TEST CERTIFICATE

	GRADE
EOF-LRF-VD-CCM(EMS + AMLC)-R MILL TRUCK NO: RJ47GA3307	
SECTION COLOR CODE	
IN mm)	(I
65 ROUND HALF(RED+YELLO	99

CHEMICAL COMPOSITION

								0												
0.0001	0.0030	0.0010	15.0000	8.0000	0.0030	5.000	122.000 15.000	0.0041	0.0010	0.0310	0.1040	1.2060	0.0560	0.1860	0.0200	0.0150	1.2000	0.2360	0191.0	ACT
	0.005Max		10.000/30.0	0.005Max 30.000Max	0.005Max	,0Мах	90.0Min 25.0Max		0.030Max	0.020/0.050	0.300Max	1.100/1.400	0.080Max	0.300Max	0.010/0.025	0.025Max	1.200/1.500	0.300Max	0.140/0.190	REQ
%Pb	4S%	%As	Bppm	СаРРМ Вррт	%Ті	ppm H ₂ ppm	N ₂ ppm O ₂ ppm	M.V.	%Sn	%A1	"Cn	%Cr	%Mo	%Ni	S%	%P	%Mn	%Si	%C.	
																-				

MECHANICAL PROPERTIES

			T		1
D.I.	VALUE		,		
	3			1300	
HRC)		, in the second	2	5	
ALUES (8		
JOMINY VALUES (HRC)	9			-	
Or	mm		24Min	24.5	
	J50mm			6	
	J25mm		27/32	27.6	
	J10mm		35/40	35.5	
	J5mm		39/44	41.6	
HARDNESS	(BHN)				
IMPACT	STRENGTH	(IZOD/CHARPY)			
	%RA			*	
VALUES	%ET				
TENSILE VALUES	UTS				
	YS				
			REQ	ACT	

METALLURGICAL PROPERTIES

	14			
TOTAL DEPTH OF DECARBURIZATION	IN mm		NA	ΥN
UPSET TEST	RESULTS		NA	NA
CORE HARDNESS	LEVEL (mm) (OILQUENCH	(HRC)	NA	NA
SURFACE DEFECT	LEVEL (mm)		OK	OK
GRAIN SIZE (ASTM	E-112)		5 and finer	7.0
		Н	1.0	0.5
	D	T	1.0	1.0
M - E - 45 Fields)		Н	0.5	0.0
IG (ASTM-I(Worst I	С	Г	0.5	0.0
LUSION RATING (ASTN Method 'A' Plate I(Worst		Н	1.0	0.0
NCLUSION RATING (ASTM - E - 45 Method 'A' Plate I(Worst Fields)	В	₽	2.0	0.5
		Н		
	A	T	==	
MACRO ETCH RESULTS(ASTM	E-381)		C2R2S2Max	<c2 r2="" s2<="" td=""></c2>
STEP	TEST		V.	NA
SPARK/ SPECTRAL	TEST		OK	OK
			REQ	ACT

REMARKS: 1.BLOOM SIZE:240X280MM2.REDUCTION RATIO:1:20.25

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

3.GRAIN SIZE:PREPARATION ACCORDING TO ZF15-53:TESTING ACCORDING TO ZFN 5016. 100% 5& FINER FINER 4.ACT %NB: 0.0017.

5.JOMINY TEST: PERFORMED ACCORDING TO ZF 15-53: TESTING AS PER ISO 642

8 "TEST CERTIFICATE: ACCORDINNG TO DIN EN 10204_3.1"
9. "THE HEAT IS REALEASED BY ZF"

6.ULTRASONIC TEST:100% CHECKED, OK AS PER ASTM A388 4MM FBH

"MATERIAL IS FREE FROM RADIOACTIVE ELEMENTS".

5.INCLUSION RATING AS PER ISO 4967, REQ DS: 2MX, ACT:0.5



K.POMESH(Sr.GM-QAD)



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