

KALYANI STEELS LTD - HOSPET DIVISION

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

COSTOMER: NALYANI SLEELS LID Delivery.No: 8300049739 EOF-LRF-VD-CCM(EMS)-R.MILL TRUCK NO: RJ02GB3329 EOF-LRF-VD-CCM(EMS)-R.MILL TRUCK NO: RJ02GB3329 SPECIFICATION NO P.O.NO. K124118 ZF7B S3 ROUND HALF(AS ROLLED AS PER IS 3739 CHEMICAL COMPOSITION CONDITION COMPOSITION COMPOSITION COMPOSITION ACCUSTOMER FROCESS ROUTE TC NO. K124118 DATE.07.06.20 TRUCK NO: RJ02GB3329 OVALITY NO.OF QUAN PIECES 117 29.7.	5 %	%As %Sb		%Ti CaPPM Bppm		ррт Н2р	N ₂ ppm O ₂ ppm H ₂ ppm	%V	%Sn	u %Al	%Cu	o %Cr	%Mo	%Ni	%S	%P	%Mn	%Si	%C	
CUSTOMER HEAT NO GRADE SECTION COLOR CODE SUPPLY LENGHT P.O.NO. K124118 ZF7B 83 ROUND RED+YELLOW) CUSTOMER HEAT NO GRADE SECTION COLOR CODE SUPPLY LENGHT (IN mm) CONDITION (IN Mirs.) RED+YELLOW) AS ROULED 4 TO 6	4							TION	COMPOSI	TEMICAL	CH					4				
CUSTOMER HEAT NO GRADE SECTION COLOR CODE SUPPLY LENGHT P.O.NO. (IN mm) CONDITION (IN Mirs.)	29.7	1117	AS PER IS 3739	4 TO 6	ROLLED	9	HALF(ED+YELLOW		83 ROUN	ZF7B		K124118								
Delivery.No: 8500049739 PROCESS ROUTE EOF-LRF-VD-CCM(EMS)-R.MILL	QUAN	NO.OF PIECES	OVALITY (IN mm)				OLOR CODI		SECTIO (IN mm	GRADE		HEAT NC		CUSTO P.O.1	189	ON	CATION	CUS		
	07.06.20 9	: RJ02GB332	TC NO. K12		M(EMS)-R.N	PROCESS F-VD-CC	EOF-LR		739	o: 8300049	elivery.N	D			ELS LTD	ANI STE	SR: KALY	COSTOME	HC.	

MECHANICAL PROPERTIES

REQ | 0.150/0.200 | 0.300Max | 1.100/1.400 | 0.025Max | 0.020/0.035 | 0.300Max

0.1600

0.2430

1.1820

0.0150

0.0220

0.1950

0.0670

0.080Max

1.000/1.300 1.2300

0.300Max 0.1150

0.028/0.050 0.030Max

0.0290

0.0010

0.0038

126,000

10.000

1.570

90.0Min 25.00Max

0.005Max 0.0020

30.000Max

10.000/30 18.0000

0.005Max 0.0001

3.0000

0.0024

							ATTACK CARLES OF	
		TENSILE VALUES	VALUES		IMPACT HARDNESS	HARDNESS	JOMINY VALUES (HRC)	D.J
Y	SA	UTS	%EL	%RA	STRENGTH (IZOD/CHARPY)	(BHN)		VAL
REQ								
ACT								

METALLURGICAL PROPERTIES

3.	SPARK/ SPECTRAL	STEP	MACRO ETCH RESULTS(ASTM			NCLUSIC Metho)N RATII d'A' Plate	LUSION RATING (ASTM - E . Method 'A' Plate I (Worst Fields	INCLUSION RATING (ASTM - E - 45 Method 'A' Plate I (Worst Fields)			GRAIN SIZE (ASTM	SURFACE	CORE	UPSET	TOTAL DEPTH (
	TEST	TEST	E-381)	Α		В		C		D		E-112)	LEVEL (mm)	工	RESULTS	IV mm
			40.	=	Н	Н	Н	-3	Н	Т	н				in the	
REQ	OK	NA	C2R2S2Max									5 and finer	OK	NA	NA	NA
ACT	OK	NA	<c2 r2="" s2<="" td=""><td></td><td></td><td>3</td><td></td><td></td><td></td><td></td><td>4</td><td>100.0</td><td>OK</td><td>NA</td><td>N></td><td>NA</td></c2>			3					4	100.0	OK	NA	N>	NA
200																

REMARKS: I BLOOM SIZE:240X280MM2, REDUCTION RATIO:1 12:43

2 ROLLED PRODUCT SIZE :83MM DIA

3 K4(OXIDES)<25, ACT:NIL

+ ACT : GRAIN SIZE 100%

5 ACT %NB 0 0018

6."MATERIAL IS FREE FROM RADIOACTIVE ELEMENTS"

Conserved

PREPARED BY

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

AUTHORISED SIGNATORY

K.POMESH(GM-OAD)