

KALYANI STEELS LTD - HOSPET DIVISION

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

TEST CERTIFICATE



	ZF 7B Issue 2021-07	SPECIFICATION NO	CUSTOMER	CHICTOMED		COSTONER : ITHE LEARNER OF CASE 2:	CITETOMED : HIM TEKNOFORGE I TO PITHAMPUR			
	K197196			HEAT NO			TO PITHAMPUR			
	ZF7B 7	The state of the s	GRADE SI			Invoice.No: 970000573				
	75 ROUND	(IIIII NII)	Dime	SECTION		05731				
	HALF(RED+YELLO W)			COLOR CODE		EOF-LRF-VD-CCM(EMS + AMLC)-R MILL TRUCK NO: HR55M9023	PR	Bond of the Control		
	AS ROLLED 5 TO 6 METER AS FER AS		CONDITION (IN Mtrs.) (IN mm)	SUPPLY		CM(EMS + AML	PROCESS ROUTE			
	5 TO 6 METER	The state of the s	(IN Mtrs.)	LENGHI		C)-R MILL		A City September		
	3739	A C DCD IC	(IN mm)	LENGHI OVALLI	OVAL ITY	TRUCK NO:	TC NO. K197196 DATE 06.11.2024			
1	33		PIECES (MTS)			HR55M9023	196 DATE.06			
	6.680	6.680					.11.2024	1		

ACT 0.16		REQ 0.140			%	0/			
0.1620		/0.190		-	/00	2			
0.2360		J.300Max	2001		1001	:270			
1.2230		0001/0071	1 200/1.500			%Mn			
0.0100	20100	VPIATCZO'O	00051620		, 01	%P			
0.0170	00170	0.010/0.020	0.010/0.025		%S				
0.1800	0 1050	0.00014100	VEWOOR O			% N			
0.0000	00500	0.0001	0 080 Max			%Mo			
1.2400	1 2400	1.100/ 1.100	1 100/1 400			SCI %CI			
0.1000	0 1000	0.000	0.300Max			%Cu			CHE
-1	0.0260	0.000	0.020/0.050			%AI			MICAL
0.0010	0 0010		REO 0.140/0.190 0.300Max 1.200/1.500 0.025Max 0.010/0.025 0.300Max 0.080Max 1.100/1.400 0.300Max 0.020/0.050 0.030Max			%Sn			CHEMICAL COMITONIA
	0.0035					70 V	0/1/		LIOIT
	99.000 17.000		20.0Min 25.0Miax			TAZPPILL	NI DOM		
	17.000		XPINIO'C7		25 0May		Oannm I		
						dd7.	N ₂ ppm O ₂ ppm H ₂ ppm		
	0.0020		0.005Max			%Ti			
	19.0000		30.000Max			%Ti CaPPM Bppm			
	12,0000			0.005Max 30.000Max 10.000/30.0		;	Bppm		
	0.0006			_			(0.70)	0% As	
	0.0000	_		XPIAICOO'O	0000		1000	%2%	
	0.0001					, 02.0	%/T		

MECHANICAL PROPERTIES

ACT	REQ				YS				
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					%EL		TENSILE VALUES		
					%RA				
				(IZOD/CHARPY)	STRENGTH		IMPACT		
					(BHN)		HARDNESS		
41.9	277.1.	39/44			J5mm	1000000			
36.3		35/40			J5mm J10mm				
28.7		27/32		,	J25mm				
25.9		24Min			J50mm				
		,	u.i				JOMIN		
							JOMINY VALUES (HRC)		
			- St. 3 3.				S (HKC)		
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					84,	VALUE		DI	

METALLURGICAL PROPERTIES

DEMARKS		ACT	KEQ				7		SPE	J. St			
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OCAUTA LIEU	NA		ANI			TEST		DOWN		SIEP	CTT		
DEMARKS: 1 BI COM STREEMONSONING BEDITION RATIO: 1:15.21.		<c2 r2="" s2<="" td=""><td>CANCOLIVIAN</td><td colspan="2">C2R2S2Max</td><td colspan="6">DOWN RESULTS(ASTM TEST E-381)</td><td></td><td></td></c2>	CANCOLIVIAN	C2R2S2Max		DOWN RESULTS(ASTM TEST E-381)							
ATIO:1:15.21.			ui)			Т	A						
		0.5	1 (cont.)	2.0		Т		ם	OTTOTAL	Metho	INCLUSIO		
		0.0		2.0 1.0		Н			1	d 'A' Plate)N RATIN		M
		0.0	3.	0.5		T	0.63/62	C		INCLUSION RATING (ASIM - E - 45) Method 'A' Plate I (Worst Fields)			LIALL
ر.		0.0		0.5	-	Н				ields)	[-E-45)		OVOTO
INCLUSIO		1.0		1.0		<u>-</u>	1	þ			_		METALLONGICALINGIERIES
NRATING		0.5		1.0		н	:				_		CALL AND
AS PER ISO 496		/.0	2	5 and finer		See .		E-112)		(ASTM	GKAIN SIZE	יייי פוסר	
5.INCLUSION RATING AS PER ISO 4967, REQUIS: 2MX, ACTIO.5	יייייייייייייייייייייייייייייייייייייי	O _N	AO.	OK	QV	19-		TEAET (mm)	1	DEFECT	SUKFACE	CITE ACE	
CT:0.5		NA.	NA	NA	1	(DINC)	CIBC	LEVEL (mm) (OILQUENCH)	CH CHENCH	HARDNESS	COME	3400	
000		No.	NA.	NA	NI A			KESULIS	DESTITE OF	TEST	OLOEI	TIDGET	
	C. Sansana	SINIT AND THE STATE OF THE STAT	NA NA	MA	NA.	a be		TITIL VIII	N	DECARBURIZATION	I O I ALL DEL TILL OI.	TOTAL DEPTH OF	

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: 0.0023.

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

8,"TEST CERTIFICATE: ACCORDINNG TO DIN EN 10204_3.1" 6.ULTRASONIC TEST:100% CHECKED, OK AS PER ASTM A388 4MM FBH 7."MATERIAL IS FREE FROM RADIOACTIVE ELEMENTS".

9."THE HEAT IS REALEASED BY ZF"





PREPARED BY

OF.NO.HS / OA/ 10.01 DG.Rev.01 Dtd: 23.02.2015