

Sy.No.632, Narayanar Bellary District, 583 222



TEST CERTIFICATE

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	o.oe, ready anadevarancie, m.D.Ham, rq. Demany District, odo 222
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	, 000 444

PROCES	PROCESS ROUTE	(mm)	SUP	SUPPLY CONDITION	TC NO.		INVOICE NO. DA	DATE
MBF-EOF-LRF-VI	MBF-EOF-LRF-VD-CCM-EMS-AMLC- RMS	200×200		As Rolled	25021269		SE24Y-15657 22-Fe	22-Feb-2025
HEAT NO. GR	LADE SIZE (mm)	REDUCTION RATIO	LENGTH (mm)	COLOUR COD				VEHICLE NO.
54218 16M	NCR5 60 DIA	14.15:1	5500 TO 6000	PINK + GREE		50	02 JH05I	JH05DK0399
Cr Mo Ni Al	Alsol V T	Cu B	Nb Ca As	Sb Sn	b W Bi	Co Zr All	H2 (ppm)	O2 (ppm)
0.800 0.020	'	'	' '	1	-	2.1	ı	
1.100 0.100 0.300 0.050	1	0.300 0.0005	- 0.0010 -	1	•		- 2.50 120.0	20.0
1.046 0.008 0.017 0.031	0.028 0.006	0.020	0.0007 0.0004 0.00	10 0.0001 0.0002 0.0	010 0.0001 0.0001		130 1.10 75.1	15.3
	-		3. JOMII	NY HARDENABILITY	(in HRC)			
TENSILE PROPERTIES (Quenched & Tempered) ASTM A370 (Quenched & Tempered) TEMPERTIES (Quenched & Tempered) TEMPERTIES (Quenched & Tempered) ASTM E	EST empered) 23	HARDNESS	ANIWOF	DISTANCE UNIT: m	m (STANDARD: IS	3848)		
RA (Charpy) (V-No (RT) Jou	tch 2mm) les	As Rolled (BHN)	J1	J5 J10	J20 J25	J30	1	-
- 25	Min	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	Min	35.0 29.0	22.5 21.0	20.0		-
	Max	260	Max	39.0 35.5	29.0 27.5	26.5	,	<u>'</u>
37.8	Actual	160-167	100	37.0 30.3	26.4 22.7	21.5	-	-
				STS				
(As Per DIN			MACRO- STRUCTURE			cked by Manual U	JT - Found OK	al is free
DS -					from surface de	cked by MPI - Fi	ound OK & Materi	lal is free
s o	S+0 (AS		(ASTM E-381)	(IS 4075) -	100% Bars chec	ked for Mix-Up b	y PMI & Spark - Fo	Found OK
1	I OT		C2,S3,I	1	Material is free	from radioactive	contamination	
	- 7	7.5 0.24	Better Than C2R2S2	OK -				
Dimension tolerence: as per IS 3739 Grade - 1		6		comply with ROHS	3 (Pb,Cd,Hg,Cr+	6) permissible li	mits.	
Uniform Ferrite + Pearlite		7	Material	orming to the custo	mer specification	•		
Ok As per UNI 8449:1983 Grade IV.		00	. Inspection Cert	ificate as per EN10		1		
100% MPI done as per ASTM E1444-12 & found Ok.				2	**			
100% UT done as per ASTM A388 & found Ok.	2.0			V		/		
		No. of the		03/6/		displie		
		Mruthyunj Reviewed & Iss	aya iued By		Autl	radish Angadi horlsed Signatory		
024		Reviewed & Iss	ued By		Aut	horised Signatory		
		HEAT NO. GRADE Charpy Charpy	HEAT NO. GRADE CHAPTON CHAPTON CHAPTON CASTING CASTI	HEAT NO. GRADE Comm Co	HEAT NO. GRADE Comm Comm S4218 16MNCR5 60 DIA 14.15.1	HEAT NO. CRAADE CHAMP CAM CRANDIN CRANDIN CAM CAM	HEAT NO. CRAADE CHAMPION CRANTIN COLOUR COUDE 54218 16MNCR5 60 DIA 14.15.1 5500 TO 6000 PINK + GREEN	