Sy.No.632, Narayanadevarakere, H.B.Halli, Tq. Bellary District, 583 222



TEST CERTIFICATE

		The state of the	1000 BEN 100								PROCE	PROCESS ROUTE	TE		BL	BLOOM SIZE	Э			IDS .	PPLY C	SUPPLY CONDITION	NOI				10	IC NO.		30.12.2024	024	T	
			CUSTO	CUSTOMER NAME	AME											000000					As R	As Rolled					7747						
		2	1/5 SSB	ENGIN	M/S SSB ENGINEERING					MBF-EO	MBF-EOF-LRF-VD-CCM-EMS-AMLC-RMS	-CCM-EN	AS-AMIC	RMS		200X200						1016		COLOTIB CODE		INAC		-	BUNDLE	VEHICLE NO.	E .		
18 Th		CUS	TOMER	SPEC	CUSTOMER SPECIFICATION	NO			HEA	HEAT NO.	9	GRADE	9	SIZE (mm)	-	REDUCTION RATIO	ATIO	LEN	LENGTH (mm)				or or or	ualf bink Half Green	-	SE24V	NO. SE24Y-12722	0 W	8	NL01AF3409	3409		
9.5	ziano Sp	pecificat	tions QF	1001, Re	Graziano Specifications QF1001, Rev No.02, Dtd: 12.05.2020	Dtd: 1	2.05.202	0;	25	52869	ਜ	16MnCr5		60 DIA		14.15:1		55001	5500 TO 6000IMIM	Σ													1811
. C	HEMIC	AL CO	I. CHEMICAL COMPOSITION	NOI															-			H2	N	0.0		-		-			•		
-	, ,	Si	Mn P	S	ئ د	. Mo	Z	¥	Alsol	>	F	5	м	Nb	4 As	Sp			a	ვ .	72	(mdd)	(ppm) 60.0	(mdd)	1.				4.			П	
Min	0.130 0.	0.150	1.000	0.0	0.015 0.800	90	·	0.020	•	•	•								-		!	2.50	120.0	20.0							•		
1	-	0.400	1.300 0.0	0.020 0.0	0.030 1.100	00 0.100	00 0.300	0 0.050	-	_			0.0005	0.0020	- 070	0.0012	11	10 0.0	000 0.0004	4 0.0068	8 0.001	1.18	82.5	15.1		•	-	•	•	-	4		
Actual	0.166 0.	0.250 1.	1.260 0.0	0.017 0.0	0.020 1.064	64 0.008	08 0.017	7 0.028	3 0.023	3 0.006	0.0027	0.021	0.0004 0.0012	7100				H H	III. JOMINY HARDENABILITY (in HRC)	HARDE	NABIL	ITY (in	HRC)										
= -	PHYSIC	AL PR	II. PHYSICAL PROPERTIES	ES					1	IMPACT TEST	TEST			1	HARDNESS								(Dist	ance Unit:	mm (St	(Distance Unit: mm) (Standard : 15 3848	748)						
		(One	TENSIL	Temper	(Quenched & Tempered) (ASTM E8)	M E8)			(Cuen	harpy) ((Charpy) (15 1/5/) (Quenched & Tempered)								-	-	-	-	L	-								12	
	YS	-	STD	-	%EL	%	%RA or %Z			(RT) (kgf/cm2)	(2)			As Rolled (BHN)				-	-	\rightarrow	_	_	31.0	30.0			·						-
	(N/mm^2)	V2)	(N/mm^Z)	(2)	80	-				25			Min					-	-	29.0	21.5	29.0	+	+-									- 1
Max		+	1370							•			Max	240			4 .		44.0 40.3	+	-	+	+	+					-	,			- 1
Actual	932		1068		16.9					38.5			Actual	165-168			¥	Actual 41	-		-	-	100	-									
13	IV METALLOGRAPHY	LLOGR	APHY													>	V. OTHER TESTS	15313									No pun						
		INC	LUSION	RATIN	INCLUSION RATING (ASTM E45)	M E45)				(As per	INCLUSION RATING (As per DIN 50602)	ING (2)	GRAIN		TOTAL		MACROSTRUCTURE	URE	STEP DOWN	OWN	_	UPSET	100%	Bars Che	ked by M	100% Bars Checked by Mailuan Of Touris Off. 100% Bars Checked by MPI - Found OK & Material is free from surface defects	K & Mater	ial is free fi	rom surface	defects			11
	<		В		ပ		Q	32		14 W 18 W	-				(mm)		(ACTM E 381)		(IS 4075)	175)			100%	Bars chec	ked for M	100% Bars checked for Mix-Up by PMI & Spark - Found OK	8 Spark	Found OK					1
	T	Н	F	н	T	н	T	н	S	0		S+0	(ASTM	E112) A:	(ASTM E112) ASIM E-1077		Retter than C2.R3.S3	153					Mate	erial is free	from Rac	Material is free from Radioactive contamination	tamination	_				18	
Spec	2.0	1.5	2.0	1.0	0.5	0.5	1.0	1.0	•		-		Ž,		0.22	_	Better than C2R2S2	252	X	_													
Actual	1.5	0.5	0.5	0.0	0.0	0.0	0.5	•		_		•	2																				
>	VI. REMARKS:	ARKS:																															
	Dimen	nsion t	oleren	ce: as	1. Dimension tolerence: as per IS 3739 Grade	3739		-																									
4 4	. Microst	ructure ok As	2. Microstructure: Uniform Ferrite + Pear 3. Banding Ok As per UNI-8449 Grade IV	m Ferrit 8449 Gr	Microstructure: Uniform Ferrite + Pearlite Banding Ok As per UNI-8449 Grade IV	릴									A SOL																		
4	The ma	terial is	comply	with RC	4. The material is comply with ROHS (Pb,Cd,Hg,Cr+6) permissible limits.	d,Hg,Cr	+6) perr	nissible	imits.				1	SOZU	VEG S																		
S	. Materia	al is con	forming	to the	5. Material is conforming to the customer specification.	specific	cation.					1	2.5		-	d																	
9	. Inspect	tion Cer	tificate a	s per El	6. Inspection Certificate as per EN10204:2004, type 3.1	1004, tyl	pe 3.1						3	4	V.	F.) -T			£.														
													-	1	2	0 *																	
					Disala H	sale	9							A. Carrier			1388	V.								Of.	Ranjan Das	6					
					ă	Diwakar H										Mrui	Mruthyunjaya Reviewed & Issued Bv	By			e!					Autho	Authorised Signatory	natory					
					Pre	Prepared By	A																										