Web Site: www.sunflagsteel.com E-mall: admin@sunflagsteel.com Regu. Off. : (0712) 2524661 Works: (07184) 285551 CIN: L27f00MH1984PLC034003

SUNFLAG IRON & STEEL CO. LTD.



Works: Bhandara Road, Bhandara - 441 905 (Maharashtra) Regd. Office: 33, Mount Road, Sadar, Nagpur - 440 001 India TEST CERTIFICATE

CUSTOMER	**	DHAR AUTOMOTIVES		PRIVATE	LIMITED		podoodd	The same of the same of				
							FROCESS	KOULE	TC NO.	. 0028107	DATE	
						MBI	MBF-EAF-LRF	-VD-CCM-RM	DELIVERY ORDER NO.	182707177 DER NO.: 81071155	DATE TRUCK NO.	: 06.07.2018 : MPL3H2315
CUSTOM	CUSTOMER SPECIFICATION No.	ATION No.		HEAT.	REAT GRADE	SECTION IN (mm)		GRADE COLOUR CODE	BLT/BLM	SUPPLY CONDITION	LENG	LENGTH NO.OF QTY
DHAR: 2	OMNCRS R-00	DHAR:20MNCRS R-00(J4/16=36-40)/01.01,2016	0)/01.01.24	016 10867	67 ZOMNCRS	RCS-75	RED		210x232 AS R	ROLLED	2.500	30 138,000
7							CHEMICAL	COMPOSITION				
	%C %Mn	S'8 4%	s %Si	%Cr	%Cu %Ni	% OW%	%A1 8	Pb %Ti	%B %Sn %W	%As %Ca %Sb	%Co %ND	7b 02 N2 H2
SP-MIN -MAX	0.17 1.10	0.035 0.035	35 0.40	1,00	0.10	0.05	0.015	Y 1				ppm ppm - - - 2.6 9.0
ACTUAL 0.19	0.19 1.18		080 0.2000	1.0700	0.0180 0.0080 0.2000 1.0700 0.0200 0.0130 0.0020	0.0020 0.0040	0.0240	0.0002 0.0021 0.0002 0.0008	0002 0.0008 -	0.0056 0.0010 0.0008	0 0030	60
			MECHANICAL	NICAL	PROPERTIES							9
	PS/YS (KG/MM2)	As Rolled UTS (KG/MM2)	/ H.T.	\$RA	IMPACT (IZOD/CHARPY)	HARDNESS Y) (BHN)	DI DI VALUE V	CE CE VALUE JI/16J2	JOMINY V2	JOMINY VALUE (INCH - HRC) J1/16J2/16J3/16J4/16J5/16J7/16J8/16J9/16J10/16J12/16J14/16J16/16	16 310/16 312/	/16 014/16 016/16
SPEC-MIN	1 55.00	80.00	8.00	35.00		240	<u> </u>	1 2	- 36.0 -		1 0	· · · · ·
ACTUAL,	77.20	91.21	111.30	46.83		208		43.0 41.0 39.0	37.0 34	.0 32.0 30.0 28.0 27.0	25.0 24.0	23.0
	TOTAL	1					METALLURGICAL	GICAL PROPERTIES	TIES			
	TINCTION	INCLUSION RATING ((ASTM-E-45	/IS:4163)	GRAIN SIZE (ASTM	SURFACE	QUENCH		JISG0555	DECARBURIZATON (MM)	1	MACRO ETCH REDUCTION
	AT AH	B T B H	CT CH	D T D H			0	dA +	dB+dC = 1	D Full Partial	Total ASTW-E-381	JTS RATIO
SPEC-MIN -MAX	2.00 1.50	2.00 1.50	2,00 1,50 2	50 2,00 1,50	10 80	1		17 13		09.0	0 60 60 60	8:1
ACTUAL,		0.50 0.50	00.00	1 50 -	17/7.5				0	N,		3.66
REMARKS	:100% SPAR	REMARKS :100% SPARK/SPECTRAL:OK.STEP DO MTRL IS FREE FROM RADIOACTIVE	OK.STEP DO	ELEMENTS	*100% SPARK/SPECTRAL:OK.STEP DOWN TEST.OK.U.S.T. (100%):OK.M.P.T - MTRL IS FREE FROM RADIOACTIVE ELEMENTS	%) :OK.M.P.T.	(100%):OK.	We	certify that the material	described	ove conforms	conforms to the specs.
									PTIME TOJ	g iron & Steel Co. Ltd	d	