Web Site: www.sunflagsteel.com E-mail: admin@sunflagsteel.com Regd. Off: : (0712) 2524661 Works: (07184) 285551 CIN: L27100MH1984PLC034003

SUNFLAG IRON & STEEL CO. LTD.

legd, Office: 33, Mount Road, Sadar, Nagpur - 440 001 India

Works: Bhandara Road, Bhandara - 441 905 (Maharashtra)

TEST CERTIFICATE



CUSTOMER : DHAR AUTOMOTIVES PRIVATE LIMITED	LIMITED		PROCESS RO	ROITER	CN		177	THE REP		0
					TNYOTCE NO	.,	. 17272044E	DATE	: 28.02.2018	2018
		MBF-E	EAF-LRF-VD-CCM-RM	O-CCM-RM	DELIVERY	DER NO	81056508	TRUCK NO		928
CUSTOMER SPECIFICATION No.	HEAT GRADE No.	SECTION IN (mm)	IOO	GRADE COLOUR CODE	BLT/BLM SIZE(mm)	SUPPLY CONDITION	NDITION	H	LENGTH NO.OF	F QTY
SF/DHAR/EN353/001:J4/16=36-40 /26.03.2017 0	08754 EN353	RCS-75	RED+BI	RED+BLUE+RED	210x232 AS	ROLLED		9	6.000	2.020
			CHEMICAL C	COMPOSITION						
%C %Mn %P %S %Si %Cr	c %Cu %Ni	% OW%	8A1 8Pb	b %Ti %B	% % %	%As	%Ca %Sb	%C0	%Nb 02	1
05.0	1.00	0.08	0 015	3 1 0	100	1 1	1		mdd -	70 - 07
-MAX 0.20 1.00 0.050 0.050 0.35 1.25	- 1.50 0	0.15 -	0.050	<u> </u>	E:	1	1	-	115	100 2.0
ACTUAL 0.18 0.84 0.0180 0.0110 0.2400 0.9300	00 0.0180 1.0200 0.1050 0.0040	0.1050 0.0040	0.0240 0.0002	02 0 0025 0 0002	2 0.0015 -	0.005000	0.0050 0.0009 0.0008		0.0030 13	81 1.20
MECHANICAL	PROPERTIES				VNTWOT.	VALITE (T)	(DOD DONL)			
	h				COMPAN					
PS/YS	A (IZOD/CHARPY)	HARDNESS (BHN)	DI CE VALUE VALUE 		J1/14J2/14J3/14J4/14J5/14J6/14J7/14J8/14J9/14J16J12/16JJ14/16JJ16/16	 /1636/1637, 	 16,38/16,39/	16 310/16	712/16 314/	16 316/16
SPEC-MIN	2 1	270	1 1	<u>F</u> <u>F</u>	- 36.0 -	<u>, , , , , , , , , , , , , , , , , , , </u>	<u>1</u> <u>1</u>	1 1	<u>1</u> 1	1 1
ACTUAL	30 -	256		43.0 42.0	40.0 37.0	34.0 32.0 30	30.0 28.0 26.0	24.0	23.0 21.0	20.0
			METALLURGICAL	ICAL PROPERTIES	ES					
INCLUSION RATING (ASTW-E-45 /IS:4163)	63) GRAIN SIZE (ASTM	SURFACE	QUENCH	SIC	JISG0555		DECARBURIZATON (MM)		MACRO ETCH REDUCTION	EDUCTION
АТ АН ВТ ВН СТСИ ВТ	D H - E- 112)		0	dA + d	dB+dC =	D E	Full Partial	Total AS	31	OTIES
	5						1		8	8:1
-MAX 2.00 1.50 2.00 1.50 1.50 1.00 2.00 1	.50 -	•	45		*	4	0.45	0.45 C	C2R2S2 -	
ACTUAL 1.00 - 0.50 - 0.00 - 1.50 -	5.7/7		ı			0.000	10.37	0.37 C	C2R1S1 8	8.66
REMARKS :100% SPARK/SPECTRAL: OK.U.S.T. (100%	(100%):OK.BLUE FRACTURE	TEST:OK.M.P.T	T.	We de	We certify that the material	1.4	described at	Orto Confor	above conforms to the	00000
(100%):OK.					For Sunf	- 48	Steel Co	Ltd.		· and

MTRL IS FREE FROM RADIOACTIVE ELEMENTS

100%PMI TEST OK