

CUSTOMER : SADHU FORGING LTD

PROCESS ROUTE

TC NO.

0016415

DATE

13.03.2018

CUSTOMER SPECIFICATION NO.

HEAT No.

GRADE

SECTION IN (mm)

GRADE COLOUR CODE

BLT/BLM SIZE (mm)

SUPPLY CONDITION

LENGTH (Mtrs)

NO. OF PIECES (MT)

SF/BLUESTAMPING/SCM420H/001

/01.06.2002

08777

SCM420H

RND-48

RED+BLUE DOT+RED

160x160

AS ROLLED

5.650

13.286

MBF-EAF-LRF-VD-CCM-RM

INVOICE NO.

172721389

DATE

13.03.2018

DELIVERY ORDER NO. : 81057676

TRUCK NO. : MH40BG959

CHEMICAL COMPOSITION

%C	%Mn	%P	%S	%Si	%Cr	%Cu	%Ni	%Mo	%V	%Al	%Pb	%Ti	%B	%Sn	%W	%As	%Ca	%Sb	%Co	%Nb	O2 ppm	N2 ppm	H2 ppm
SP-MIN	0.17	0.55	-	0.15	0.85	-	0.15	-	0.020	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-MAX	0.23	0.90	0.030	0.35	1.25	-	0.35	-	0.045	-	-	-	-	-	-	-	-	-	-	-	20	100	2.0
ACTUAL	0.21	0.87	0.0140	0.0150	0.2200	1.2000	-	0.2350	-	0.0230	-	-	-	-	-	-	-	-	-	-	14	73	1.10

MECHANICAL PROPERTIES

JOMINY VALUE

PS/YS	UTS	%EL	%RA	IMPACT (IZOD/CHARPY)	HARDNESS (BHN)	DI VALUE	CE VALUE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()	()
SPEC-MIN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-MAX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ACTUAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

METALLURGICAL PROPERTIES

INCLUSION RATING (ASTM-E-45 / IS:4163)	GRAIN SIZE (ASTM)	SURFACE QUALITY	QUENCH HARDNESS	JISG0555	DECARBURIZATION (MM)	MACRO ETCH RESULTS	REDUCTION RATIO
A T A H B T B H C T C H D T D H	- E-112	()	da + db+dc = D	Full Partial Total	ASTM-E-381	ASTM-E-381	ASTM-E-381
SPEC-MIN	-	-	-	-	-	-	-
-MAX	1.50	1.50	1.50	8	-	-	-
ACTUAL	1.00	0.50	0.00	1.50	7/7.5	OK	OK

REMARKS : 100% SPARK/SPECTRAL:OK.MICRO STRUCTURE:FERRITE + PEARLITE.

J5, 9MM=42, 39 HRC

We certify that the material described above conforms to the specs.

For Sunflag Iron & Steel Co. Ltd.