



JAYASWAL NECO INDUSTRIES LIMITED

(STEEL PLANT DIVISION)

SILTARA INDUSTRIAL GROWTH CENTRE, RAIPUR (C.G.)

Ph.: +91-7721-264241/263, Fax No. : +91-7721-264279/264240

TEST CERTIFICATE

No:BM4233B

CUSTOMER : FORGE INDIA PVT.LTD. DISTT-SOLAN (HP)
SPECIFICATION : FI/TDC/S-04.ISSUE NO.01
REV No / REF NO : 00.
HEAT NO : D 59364
GRADE : SAE8620
SECTION(MM) : 65 DIA
REDUCTION RATIO : 9.8
INPUT SIZE (MM) : 180 X 180
PROCESS ROUTE : BF/EOF/LRF/VD/CCM/SEN/M'EMS/AMLC

INVOICE NO : 206363
TRUCK NO : PB65AA7262
DATE : 20/03/2018
NO OF PCS / BNDL : 134PCS/10BNDL
QUANTITY (MT) : 17.930
COLOUR CODE : RED+GREEN+RED
SUPPLY CONDITION : AS ROLLED
MULTIPLE LENGTH : 5-6 MTR

QA/RM/F10

1. CHEMICAL COMPOSITION % (Ladle/Product)

	%C	%Mn	%P	%S	%Si	%Cr	%Ni	%Mo	%Pb	%Cu	%Sn	%V	%Ti	%B	%Al
CUST. MIN	0.180	0.700	--	--	0.150	0.400	0.400	0.150	--	--	--	--	--	--	--
SPEC. MAX	0.230	0.900	0.035	0.035	0.350	0.600	0.700	0.250	--	--	--	--	--	--	--
ACTUAL	0.210	0.870	0.020	0.025	0.220	0.580	0.510	0.220	--	0.015	0.003	0.004	0.0030	0.0004	0.028

2. MECHANICAL PROPERTIES

SPECIFIED

ACTUAL

YS : --
UTS : --
ELONGATIONS(5.65Sq.rt.A) % : --
REDUCTION AREA % : --
IMPACT VALUE : --
HARDNESS(BHN/HRB/HRC) : 220BHN MAX. 170/190 BHN

3. METALLURGICAL PROPERTIES

MICRO STRUCTURE : -- PEARLITE+FERRITE
GRAIN SIZE(ASTM E112/IS:4748) : 6/8ASTM E112 6.5/7.5
TOTAL DECARB (MM) SAEJ419 : 1.0XOF DIA 0.28 MM PARTIAL
INCL RATINGS(ASTM E-45/IS:4163)

SPECIFIC REQUIREMENT

THIN	THICK	THIN	THICK	THIN	THICK	THIN	THICK
A-2.0/1.5	B-2.0/1.5	C-2.0/1.0	D-2.0/1.0				
1.5	0.0	0.5	0.0	0.0	0.0	1.5	0.0

MACRO ETCH TEST (ASTM E - 381) : C2R2S2 MAX. BETTER THAN C2R2S2
A. D. I. VALUE (J406) : --
JOMINY REQUIREMENT : 4/16-33/37
HARDENABILITY IS:3848/A255-02

DIST-INCH/MM	4/16"
VALUES(HRC)	36.00

5. GAS LEVEL (PPM) SPECIFIED MAX : O2: 20.0 N2: 70-80 H2: 2.0
GAS LEVEL (PPM) ACHIEVED : O2: 16.3 N2: 73.0 H2: 1.7

6. REMARKS : 100% SPARK/SPECTRAL/MOBILE SPECTRO TEST :OK
STEP DOWN TEST :OK
UPSET TEST :NA
100% MPI & UST OK



AUTHORISED SIGNATURE