

NECO



# JAYASWAL NECO INDUSTRIES LIMITED

(STEEL PLANT DIVISION)

 SILTARA INDUSTRIAL GROWTH CENTRE, RAIPUR (C.G.)  
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## TEST CERTIFICATE

No: DM 6664

CUSTOMER : FORGE INDIA PVT.LTD. DISTT-SOLAN (HP)  
 SPECIFICATION : FI/TDC/S-04.ISSUE NO.01  
 REV No / REF NO : 00.  
 HEAT NO : D 60042  
 GRADE : SAE8620  
 SECTION(MM) : 63 RCS  
 REDUCTION RATIO : 8.2  
 INPUT SIZE (MM) : 180 X 180  
 PROCESS ROUTE : BF/EDF/LRF/VD/CCM/SEN/M'EMS/AMLC

INVOICE NO : 12772 GA/RM/F10  
 TRUCK NO : HR64A-1948  
 DATE : 26/05/2018  
 NO OF PCS / BNDL : 83 PS/08 BL.  
 QUANTITY (MT) : 13.020  
 COLOUR CODE : RED+GREEN+RED  
 SUPPLY CONDITION : AS ROLLED  
 MULTIPLE LENGTH : 5-6 MTR

### 1. CHEMICAL COMPOSITION % (Ladle/Product)

	%C	%Mn	%P	%S	%Si	%Cr	%Ni	%Mo	%Pb	%Cu	%Sn	%V	%Ti	%B	%Al	%C
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	0.200	0.880	0.015	0.026	0.230	0.580	0.420	0.170	--	0.007	0.004	0.004	0.0020	0.0003	0.034	0.00

### 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(ASM E112/IS:4748)	6/BASTM E112	6.5/7.5
TOTAL DECARB (MM) SAEJ419	1.0%OF DIA	0.35MM PARTIAL
INCL RATINGS(ASM 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	
ACTUAL	1.5	0.0	0.5	0.0	0.0	0.0	1.5	0.0

### 4. D. I. VALUE (J406)

JOMINY REQUIREMENT

HARDENABILITY IS:3848/A255-02

DIST-INCH/MM:

VALUES(HRC):

### 5. GAS LEVEL (PPM) SPECIFIED MAX

GAS LEVEL (PPM) ACHIEVED

### 6. REMARKS

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

THE MATERIAL IS FREE FROM RADIO ACTIVE CONTAMINATION &amp; HAZARDOUS CHEMICAL