

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:8736142

SPECIFICATION :F1/T REV No / REF NO :00, HEAT NO :D 58 GRADE :20MN SECTION(MM) :63RC REDUCTION RATIO :8.2 INPUT SIZE (MM) :180	CR5	\$ ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ±	HP)	INVOICE NO TRUCK NO DATE NO OF PCS / E QUANTITY (MT) COLOUR CODE SUPPLY CONDIT MULTIPLE LENG	MOL	:200 285 G :SAMPLE TC :05/02/2018 : 7.870 :RED+BLUE DOT :AS ROLLED :XL=5-6 MTR	A/RM/F10
A. CHEMICAL COMPOSITION % (La		and the same and the same time the same to	an any any any any any any any any any a	en seur eine seur soos eine eine seur eine eine seur eine seur eine eine eine eine eine eine eine ein	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	
; %C ; %Mn ;	7P ; 7S ; 7S;	. ; %Gr-1 /	Ani : Mo :	7Pb 7Cu	%Sn	(%Ti : %B	1
CUST. MIN ; 0.170; 1.100; SPEC. MAX ; 0.220; 1.400;	0.025; 0.035; 0.4	50; 1.000; 00; 1.300;					
ACTUAL (0.170; 1.130;	0.017: 0.025: 0.2	10; 1.000; 0.	.017: 0.003;	; 0.010; (0.006; 0.000	5;0.0020;0.0003	0.023/0.0019
2, MECHANICAL PROPERTIES	SECI	IED	ACTUAL				***
YS UTS ELONGATIONS(5.65Sq.rt.A) % REDUCTION AREA % IMPACT VALUE HARDNESS(BHN/HRB/HRC) 3. METALLURGICAL PROPERTIES	220BH	MAX.	170/190 BHN		SA	MPLE	
MICRO STRUCTURE GRAIN SIZE(ASTM E112/IS:4748) TOTAL DECARB (MM) SAEJ419 INCL RATINGS(ASTM E-45/IS:416	: 1.0%0		PEARLITE+FE 6.5/7.5 0.38 MM PAR				
		THIN : THIC	(; THIN ; THI	X; THIN; THIC	K; THIN :	HICK	
SPEC	IFIC REQUIRMENT	A-2.0/1.5	9-2.0/1.	5 C-2.0/1.0	D-2.0	4.0	
	ACTUAL	1.5 / 0.0	1 0.5 1 0.	0.0 0.0	1.5	0.0	Carr
MACRD ETCH TEST (ASTM E - 381 4. D. 1. VALUE (J406) JOMINY REQUIREMENT HARDENABILITY IS:3848/A255-02	. 4/16"=		BETTER THAN	C2R2S2 Ma	terial has be INDIA le invoice N	een sold to M/s. PV7 LTD 200285 10. 2007 516	FORGE PARWANOO 12/18 07-876 8388
IDIST-INCH/MM:	; 4/16";		* ************************************	; Tr	uck No	Prograd Naco III	idustries Ltd. (Ldh.)
VALUES(HRC); ; ;	; 33,50;	3 4 8	is a second contraction of the second contra	\$: \$ \$		(A) (13)	Agudel
5. GAS LEVEL(PPM) SPECIFIED M GAS LEVEL(PPM) ACHIEVED			(2: 70-80 (2: 73.0		ucuman samu yani apagi apan sahi, nam menjinder interior	and the second s	Aith Signature
6. REMARKS	STEP		e.	TRO TEST :OX :OK :NA			

AUTHORISED STONATORY