

JAYASWAL NECO INDUSTRIES DIMITED

(STEEL PLANT DIVISION)

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TEST CERTIFICATE

0:8478800

CUSTOMER SPECIFICATION REV No / REF NO HEAT NO GRADE SECTION(MM) REDUCTION RATIO INPUT SIZE (MM) PROCESS ROUTE 1. CHEMICAL COMPOSITIO	:FI/TDC/S :00. :MB06343 :20MNCR5 :75RCS :11.1 :250 X 25 :BF/EDF/L	RF/VD/CCM/SEN	.1			INVOICE TRUCK NO DATE NO OF PO QUANTITY COLOUR O SUPPLY O NULTIPLE	S / BNDL ((MT) CODE CONDITION		: 23/0: :SAMPI : RED+I : AS RI : 5-6M	LE TC BLUE DO DLLED	QA/RM/I	F10
1 20 1	2Mn 2P	; %S ; %Si	; %Cr ;	XNi :	ZMo :	%Рь (%C	Cu ¦ %Sr	2 : XV	; 2T	i ; ZE	: %A	1 : %Ca
CUST. MIN : 0.170:	1.100; 1.400; 0.0	; ; 0.1 25; 0.035; 0.4	50; 1.000; 00; 1.300;		-	- -	-	 	1 -	:	: 0.0	
ACTUAL 1 0.1801	1.230; 0.0	15; 0.026; 0.1	90; 1.230;	0.017;	0.002:	: 0.0	0.00	04: 0.0	04:0.00	20:0.00	0.0	27:0.0023
2. MECHANICAL PROPERTI	ES	SPECIF	IED	AC	TUAL							1
YS UTS ELONGATIONS(5.65Sg.rt. REDUCTION AREA % IMPACT VALUE HARDNESS(BHN/HRB/HRC) 3. METALLURGICAL PROPE MICRO STRUCTURE GRAIN SIZE(ASTM E112/) TOTAL DECARB (MM) SAE(INCL RATINGS(ASTM E-4)	ERTIES (IS:474B) (IA:19 (5/15:4163)	: P+F : 6/8 : 1.0%OF C REQUIRMENT	THIN : TH A-2.0/1	PEAF 6.5/ 0.38 DICK: THI	(N ; THIC 3-2.0/1.	RAITE CK! THIN CK! C-2 C : 0.0	; THICK;	B 23 Jayasw	D 53 of Neco	07 67	Onty!	S. 180 July Jane
MACRO ETCH TEST (ASTM 4. D. I. VALUE (J406) JOMINY REQUIREMENT HARDENABILITY IS:3848		:	2 MAX. -34/38HRC	BET	rer Than	CZRZSZ.						39 <u>.</u> 5
:DIST-INCH/MM: :	1	{ 4/16"}	1 ;	t	1	1	1)	1	4
VALUES(HRC); ;	1	; 38.00:	1 1	1	1	1	1	1	1	ĺ	1	:
5. GAS LEVEL(PPM) SPE GAS LEVEL(PPM) ACH			20.0 15.0	N2: 1		H2: 2 H2:					1	
6. REMARKS		STEP UPSET	SPARK/SPECT DOWN TEST TEST UT & MPI TE		ILE SPEC		: DK : OK : NA		÷			

Evel