

RAW MATERIAL INCOMING INSPECTION REPORTS

D.C. No. :- F/05/01
Issue no. :- 01, 01.07.2018
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INO.	1754	SECTION :-	60mm	HAET NO :-	57400	INVOICE NO.-	5F247-13850											
EST.	37/11/25	STEEL SUPPLIER :-	SLR	REC.QTY :-	8740	INVOICE DATE:-	22/11/25											
	16MNCBS	STEEL TC NO :-	25010935	NO. OF BARS :-														
Process / Mill Route																		
stry	%C	%Mn	%Si	%S	%P	%Cr	%Ni	%Mo	%Al	%Cu	%As	%Sb	%V	%Pb	%Ca	%Nb	%Ti	%B
	0.170	1.000	0.150	0.015	-	0.800	-	-	0.020	-	-	-	-	-	-	-	-	-
	0.180	1.300	0.400	0.030	0.020	1.100	0.300	0.100	0.050	0.700	-	-	-	-	0.0010	-	-	0.0005
Value	0.168	1.230	0.185	0.025	0.013	1.040	0.015	0.005	0.026	0.020	-	0.0002	0.007	0.0013	0.0006	0.0011	0.0021	0.0004
o Value	0.183	1.242	0.209	0.028	0.014	1.053	0.013	0.002	0.021	0.008	-	-	0.004	-	-	0.003	0.004	0.0005

Bar Size	(As per WI...)	Qty: 10 % Of Total Heat	Diameter/Section Size (In mm)											
Bar Checked	S.NO.	1	2	3	4	5	6	7	8	9	10	11	12	
		60.1	60.2	60.4	60.6	60.5	60.7	60.3	60.4	60.6	60.9			

Gas Content (PPM): As per Mill Tc	N2	H2	O2
Min	60.0	-	-
Max	120.0	2.50	20.0
Value			
Mill Tc	66.2	1.64	14.9

Steel Supply Condition:	AS ROLLED
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MACRO	(I)	Internal soundness Sample : (ASTM E381 or as per customer)	SJ	RJ	C2 Max
	(II)	Dendrite structure O1 sample :	252	272	252
	(III)	Step Down Test Sample : (IS4075 or as per customer)	OK		

Micro structure As Rolled :	Micro structure : (or as per customer)
Mill Tc	P+F
SSB	P+F

ULTRASONIC TEST (AS PER ASTM A388) :	Mill Tc	100% Done
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INCLUSION RATING (IS 14163 /ASTM: E45A OR REQUIRED BY CUSTOMER)	A	B	C	D	DS					
	Sulphide	Aluminate	Silicate	Oxide						
	TN	TK	TN	TK	TN	TK	TN	TK	TN	TK
Cust Spec. If Any	2.0	1.5	2.0	1.0	0.5	0.5	1.0	1.0	-	-
Mill Tc	1.0	0.5	0.5	0	0	0	0.5	0.5	-	-
SSB	1.0	0.5	0.5	0	0	0	0.5	0.5	-	-

GRAIN SIZE :	Spec:-	5-8	Mill Tc	7.5	SSB	7.5
(ASTME112 / IS-4748)						

JOMINY HARDENBILITY	Distance	T1.5	T2.5	T10	T15	T20	T25	T30								
IS-3848 /ASTMA255	Specified	37.0-44.0	35.0-37.0	29.0-35.0	25.0-31.5	22.5-24.0	21.0-27.5	20.0-26.5								
(As per required by Customer)	Mill Tc	42.0	37.4	29.7	26.2	23.5	22.1	20.5								
	Observed	41	36	29	25	23	21	20								

MECHANICAL PROPERTIES : (If Required In TDC /Customer)	As per IS:1608/ ASTM A 370	As per IS: 1757				
	U.T.S	Y.S	N/mm2	%EL	IMPACT VALUE	IMPACT VALUE
	N/mm2 /MPA	/MPA			CHARRY	IZOD
Specified	1020-1270	725 Min		8 min	25 J m13	
Observed	1142	1052		14.1	37.2	

As Rolled Hardness	1	2	3	4	5
(BHN (Max / Min)	157	163	165	166	165
(If Required In TDC /Customer)					

VISUAL :	(i)	Surface Condition	100 % Bars Checked	OK
	(ii)	Heat No.	100 % Bars Checked	OK
	(iii)	Color Code.	100 % Bars Checked	OK

REDUCTION RATIO :	Specify	7.1 Min	BLOOM SIZE - 200 X 200	REDUCTION RATIO : 14.15.1
(If Required In TDC /Customer)	As Per Mill TC			

DECARB LEVEL :	(AS PER IS 6396 / ASTM E1077)	Specified	0.60 mm Max			
(If Required in TDC /Customer)		Observed	PD	0.21	FD	

UPSETABILITY TEST (AS PER IS 10167) :	OK
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Test Certificate verified for Each Heat no :	Available & Ok	Not Available	Not Conforming
	OK		

TDC / Customer STD	SSB/TDC/	Mill Tc No	Mill Tc Date	Verified By :
(If Required in TDC /Customer)	PF1001 RB 14.06.24	25010935	22/11/25	

MIX-UP TEST	Verified By Mobile Spectro /X-Ray Gun/Spark Test
(If Required in TDC /Customer)	Accepted <input checked="" type="checkbox"/> Rejected <input type="checkbox"/>

Other Remarks	
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Checked By	Approved By