



RAW MATERIAL INCOMING INSPECTION REPORTS

D.C. No. :- F/05/01
Issue no. :- 01, 01.07.2018
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13778	SECTION :-	Comm	HAET NO. :-	54935	INVOICE NO. :-	17540											
311325	STEEL SUPPLIER :-	SLR	REC.QTY :-	35060	INVOICE DATE :-	25/3/25											
6mm	STEEL TC NO. :-	25031231	NO. OF BARS :-	264													
Process / Mfg Route: MRF - FOF - CRF - VDF - CM - EMO																	
%C	%Mn	%Si	%S	%P	%Cr	%Ni	%Mo	%Al	%Cu	%As	%Sb	%V	%Pb	%Ca	%Nb	%Ti	%B
0.180	1.00	0.150	0.015	0.005	0.500	0.000	0.020	0.020	0.020	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
0.180	1.000	0.400	0.030	0.020	1.100	0.300	0.100	0.050	0.300	0.020	0.002	0.006	0.006	0.006	0.006	0.006	0.006
0.185	1.000	0.350	0.022	0.013	1.050	0.019	0.009	0.029	0.018	0.020	0.002	0.006	0.006	0.006	0.006	0.006	0.006
0.180	1.000	0.350	0.022	0.013	1.050	0.025	0.005	0.027	0.011	0.020	0.002	0.006	0.006	0.006	0.006	0.006	0.006

Bar Size (As per WL...) Qty: 10 % of Total Heat

S.NO.	1	2	3	4	5	6	7	8	9	10	11	12
	60.2	60.5	60.1	60.5	60.2	60.0	60.2	60.4	60.1	60.5	60.3	60.5

Gas Content (PPM): As per Mill Tc

	N2	H2	O2
Min	60		
Max	120	2.5	20
Value			
Mill Tc	73.5	13	15.3

Steel Supply Condition: HOT ROLLED

MACRO (i) Internal soundness Sample: (ASTM E381 or as per customer) Value Obs. S3 R3 C2 MAX
(ii) Dendrite structure 01 sample: Value Obs. S2 R2 C2
(iii) Step Down Test Sample: (IS4075 or as per customer) OK

Micro structure As Rolled: Uniform Ferrite + Pearlite
Mill Tc Ferrite + Pearlite
SSB

ULTRASONIC TEST (AS PER ASTM A388): Mill Tc 100% Done ok

INCLUSION RATING (IS 14163 / ASTM: E454 OR REQUIRED BY CUSTOMER)

	A Sulphide		B Aluminate		C Silicate		D Oxide		DS	
	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	0.0	0.5	0.5		
SSB	1.0	0.5	0.5	0.0	0.0	0.0	0.5	0.5		

GRAIN SIZE: Spec: 5-8 Mill Tc 7 SSB 7
(ASTME112 / IS-4748)

JOMINY HARDENBILITY IS-3848 / ASTM A255 (As per required by Customer)

Distance	1.5	5	10	15	20	25	30
Specified	39-44	34.5-40.5	31.5-35.5	28.5-31.5	25.5-28.5	21-27.5	20-26.5
Mill Tc	43.1	39.3	31.5	27	25.5	23.4	22
Observed	42	37	32	28	26	23	21

MECHANICAL PROPERTIES: (If Required in TDC / Customer)

	As per IS:1608 / ASTM A 370			As per IS: 1757	
	U.T.S N/mm2 / MPA	Y.S N/mm2 / MPA	%EL	IMPACT VALUE CHARRY	IMPACT VALUE IZOD
Specified	1030-1370	735 min	8 min	25 J min	
Observed	1078	942	16.2	34 J	

As Rolled Hardness (BHN (Max / Min)) (If Required in TDC / Customer)

1	2	3	4	5
162	163	164	166	167

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 - 200x200 REDUCTION RATIO: 14:15:1
(If Required in TDC / Customer) As Per Mill TC

DECARB LEVEL: (AS PER IS 6396 / ASTM E1077)

Specified	Observed	PD	FD
0.60 mm max	0.19		

UPSETIBILITY TEST (AS PER IS 10167): OK

Test Certificate verified for Each Heat no:

Available & Ok	Not Available	Not Conforming
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TDC / Customer STD SSB/TDC/ Mill Tc No. Mill Tc Date Verified By: OK
(If Required in TDC / Customer) DF100/123 25031231 25/3/25

MIX-UP TEST (If Required in TDC / Customer) Verified By Mobile Spectro / X-Ray Gun / Spark Test
Accepted ☒ Rejected ☐

Other Remarks: OK
Checked By: OK Approved By: OK