



RAW MATERIAL INCOMING INSPECTION REPORTS

D.C. No. :- F/05/01
Issue no. :- 01, 01.07.2018
Rev. no. :- 02, 11.05.23

1766	SECTION :-	8mm	HAET NO :-	5444	INVOICE NO. :-	18357
21325	STEEL SUPPLIER :-	SIR	REC.QTY :-	36870 kg	INVOICE DATE :-	3/3/25
20400	STEEL TC NO :-	25030093	NO. OF BARS :-	158 PC		

Process/Mfg Route: MPF-EPF-LRF-VM-CCMCFMS-ARMIS-ROG

%C	%Mn	%Si	%S	%P	%Cr	%Ni	%Mo	%Al	%Cu	%As	%Sb	%V	%Nb	%Ti	%B
0.15	1.00	0.150	0.015	1.00	1.300	0.300	0.100	0.020	0.300	—	—	—	—	—	—
0.200	1.300	0.400	0.030	0.020	1.300	0.300	0.100	0.050	0.300	—	—	—	—	—	—
0.130	1.230	0.252	0.024	0.013	1.220	0.319	0.097	0.020	0.018	0.0020	0.001	0.0006	0.0010	0.0005	0.0002
0.136	1.327	0.235	0.023	0.016	1.213	0.290	0.092	0.023	0.023	—	—	0.004	—	0.005	0.0002

Bar Size (As per WI...) Qty: 10 % OF Total Heat

S.NO.	1	2	3	4	5	6	7	8	9	10	11	12
1	80.1	80.4	80.0	80.5	80.2	80.6	80.1	80.4	80.1	80.3	80.5	80.2

Gas Content (PPM): As per Mill Tc

N2	H2	O2
Min	60	—
Max	120	80
Value	79.3	1.11
Mill Tc	79.3	1.11

Steel Supply Condition: HS Hot Rolled

MACRO (i) Internal soundness Sample: (ASTM E381 or as per customer) S3 R3 C2 (MAX)

(ii) Dendrite structure 01 sample: 7S2 7R2 7C2

(iii) Step Down Test Sample: (IS4075 or as per customer) OK

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

Mill Tc: F + P

SSB: F + P

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

INCLUSION RATING (IS 14163 / ASTM: E45A 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	0.5	0	0.0	0.0	0.5	0.5		
SSB	1.0	0	0.5	0	0.0	0.0	0.5	0.5		

GRAIN SIZE: (ASTM E112 / IS-4748) Spec: 5-8 Mill Tc 7.5 SSB 6

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

Distance	1.5	5	10	15	20	25	30
Specified	41-46	28-44	32-38	50-55	24-35	25-32	24-31
Mill Tc	43	41	38	30	28	26	25
Observed	44	43	37	34	30	29	26

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 /MPA	N/mm2	%EL	IMPACT VALUE CHERRY IZOD
Specified	1330-1570	930 min	700	25.5 min	
Observed	1254-786	1187-805	28.918	32.0	

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

1	2	3	4	5
152	156	158	165	160

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: 200mm2 REDUCTION RATIO: 7:96:1

DECARB LEVEL: (AS PER IS 6396 / ASTM E1077) Specified 0.60 mm max

Observed	PD	0.19	FD
----------	----	------	----

UPSETABILITY TEST (AS PER IS 10167): OK

Test Certificate verified for Each Heat no: Available & Ok Not Available Not Conforming

Customer STD SSB/TDC/ Mill Tc No. 25030093 Mill Tc Date 3/3/25 Verified By: [Signature]

UP TEST (As per required in TDC / Customer) Verified By Mobile Spectro / X-Ray Gun / Spark Test

Accepted [X] Rejected []

Other Remarks: [Signature]

Approved By: [Signature]