



RAW MATERIAL INCOMING INSPECTION REPORTS

D.C. No. :- F/05/01
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Report NO	1763	SECTION :-	70mm	HAET NO :-	54187	INVOICE NO.	15638										
DATE	25/12/25	STEEL SUPPLIER :-	SIP	REC.QTY :-	31350kg	INVOICE DATE	22/12/25										
GRADE	350mm	STEEL TC NO :-	083F-EEF-12F-V1D-CRM-E-Mn-A1C-BMS	NO. OF BARS :-	177												
(01) Chemistry	%C	%Mn	%Si	%S	%P	%Cr	%Ni	%Mo	%Al	%Cu	%As	%Sb	%V	%Nb	%Ti	%B	
Min	0.30	1.80	0.45	0.015	0.008	1.00	0.030	0.030	0.030	0.030	0.005	0.005	0.005	0.005	0.005	0.005	
Max	0.40	1.00	0.40	0.030	0.030	1.50	0.30	0.10	0.050	0.30	0.010	0.010	0.010	0.010	0.010	0.010	
Mill Tc Value	0.30	0.93	0.30	0.025	0.012	1.20	0.018	0.011	0.030	0.017	0.008	0.008	0.008	0.008	0.008	0.008	
Spectro Value	0.30	0.93	0.30	0.025	0.016	1.20	0.018	0.011	0.030	0.017	0.008	0.008	0.008	0.008	0.008	0.008	
(02) Bar Size	(As per WI...)	Qty: 10 % Of Total Heat															
No of Bar Checked	Diameter/Section Size (in mm)																
	1	2	3	4	5	6	7	8	9	10	11	12					
	70.3	70.1	70.4	70.1	70.2	70.4	70.3	70.1	70.4	70.3	70.1	70.2					
(03) Gas Content (PPM): As per Mill Tc	H2 H2 O2																
	Min 60																
	Max 180 25 30																
	Value																
	Mill Tc 77.2 1.39 14.1																
(04) Steel Supply Condition:	Hot Rolled																
(05) MACRO	(i)	Internal soundness Sample : (ASTM E381 or as per customer) S 2 R 2 C 2 max															
	(ii)	Dendrite structure 01 sample : S 2 R 2 C 2															
	(iii)	Step Down Test Sample : (IS4075 or as per customer) OK															
(06) Micro structure As Rolled :	Micro structure : (or as per customer)																
	Mill Tc																
	SSB																
(07) ULTRASONIC TEST (AS PER ASTM A388) :	Mill Tc 100% Done																
(08) 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 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 0.0																
	SSB 1.0 0.5 0.5 0.0 0.0 0.0 0.5 0.0																
(09) GRAIN SIZE : (ASTME112 / IS-4748)	Spec:- 5-8 Mill Tc 7 SSB 6.5																
(10) JOMINY HARDENBILITY IS-3848 /ASTMA255 (As per required by Customer)	Distance 1.5 3 5 7 9 11 13 15 20 25 30																
	Specified 50.5-58.5 51-57 50-51 49.5-55 45.5-54 44-54 42.5-53 39-50 32-51 31-41																
	Mill Tc 52.5 56.6 55.7 54.2 52.3 51.8 50.5 46.3 44 40.7 38.5																
	Observed 56 55 54 52 52 50 48 46 42 39 38																
(11) MECHANICAL PROPERTIES : (If Required in TDC /Customer)	As per IS:1608/ ASTM A 370																
	U.T.S N/mm2 /MPA Y.S N/mm2 /MPA %EL IMPACT VALUE CHARRY IMPACT VALUE IZOD																
	Specified 880-1080 685 min 1.8 min																
	Observed 956.367 742.426 23.718%																
	As Rolled Hardness (BHN (Max / Min) (If Required in TDC /Customer)																
	1 2 3 4 5																
	213 214 215 216 217																
(12) VISUAL :	(i) Surface Condition 100 % Bars Checked OK																
	(ii) Heat No. 100 % Bars Checked OK																
	(iii) Color Code. 100 % Bars Checked OK																
(13) REDUCTION RATIO : Specify BLOOM SIZE - 200x200mm REDUCTION RATIO : 10.39 : 1 (If Required in TDC /Customer) As Per Mill TC																	
(14) DECARB LEVEL : (AS PER IS 6396 / ASTM E1077) Specified Observed PD 0.18 FD 0.18																	
(15) UPSETIBILITY TEST (AS PER IS 10167) :	OK																
(16) Test Certificate verified for Each Heat no :	Available & OK Not Available Not Conforming																
(17) TDC / Customer STD (If Required in TDC /Customer) SSB/TDC/ Mill Tc No. 05091051 Mill Tc Date 22/12/25 Verified By: [Signature]																	
(18) MIX-UP TEST (If Required in TDC /Customer) Verified By Mobile Spectro /X-Ray Gun/Spark Test Accepted Rejected																	
Other Remarks																	
Checked By [Signature]	Approved By [Signature]																

