



RAW MATERIAL INCOMING INSPECTION REPORTS

D.C. No. :- F/05/01
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REPORT NO.	1761	SECTION :-	Comm	HAET NO. :-	54817	INVOICE NO. :-	15612											
DATE :-	25/12/25	STEEL SUPPLIER :-	SUR	REC. QTY. :-	32940 kg	INVOICE DATE :-	21/12/25											
GRADE :-	16mm CMS	STEEL TC NO. :-	25021225	NO. OF BARS :-	24800													
Process / Mill Route: MBF + EOP = CRF - VD - CCM - FMS - AMIC - QMS																		
(01) Chemistry	%C	%Mn	%Si	%S	%P	%Cr	%Ni	%Mo	%Al	%Cu	%As	%Sb	%V	%Nb	%Ti	%B		
Min	0.17	1.0	0.15	0.015	0.005	0.800	0.005	0.005	0.020	0.005	0.005	0.005	0.005	0.005	0.005	0.005		
Max	0.18	1.3	0.40	0.030	0.010	1.100	0.300	0.100	0.050	0.300	0.010	0.010	0.010	0.010	0.010	0.010		
Mill Tc Value	0.168	1.25	0.25	0.020	0.011	1.045	0.091	0.010	0.028	0.010	0.010	0.010	0.010	0.010	0.010	0.010		
Spectro Value	0.172	1.246	0.280	0.020	0.016	1.035	0.098	0.003	0.030	0.009	0.010	0.010	0.010	0.010	0.010	0.010		
(02) Bar Size	(As per WI...)	Qty : 10 % Of Total Heat																
No of Bar Checked	Diameter/Section Size (In mm)																	
	S.NO.	1	2	3	4	5	6	7	8	9	10	11	12					
		60.1	60.3	60.2	60.2	60.1	60.2	60.0	60.0	60.2	60.4	60.1	60.2					
(03) Gas Content (PPM): As per Mill Tc	N2 H2 O2																	
	Min	60																
	Max	130 2.5 20																
	Value																	
	Mill Tc	79.1 1.37 15.2																
(04) Steel Supply Condition:	Hot Rolled																	
(05) MACRO	(i)	Internal soundness Sample : (ASTM E381 or as per customer)																
		Value Obs. 52 R3 C2 MAP																
	(ii)	Dendrite structure 01 sample :																
		32 R2 C2																
	(iii)	Step Down Test Sample : (IS4075 or as per customer)																
		OK																
(06) Micro structure As Rolled :	Micro structure : (or as per customer)																	
	Mill Tc	F+P																
	SSB	F+P																
(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	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	0.0	0.0										
(09) GRAIN SIZE : (ASTME112 / IS-4748)	Spec. :-	5-8		Mill Tc	7		SSB	6.5										
(10) JOMINY HARDENILITY IS-3848 / ASTM A255 (As per required by Customer)	Distance	1.5	5	10	15	20	25	30										
	Specified	39.44	35.39	29.95	25.71	22.5	21.5	20.45										
	Mill Tc	42.3	37.9	30.5	27.4	25	21.8	20.6										
	Observed	40	35	30	26	24	22	21										
(11) MECHANICAL PROPERTIES : (If Required In TDC/Customer)	As per IS:1608 / ASTM A 370																	
	U.T.S		YS		N/mm2		%EL		IMPACT VALUE CHERRY		IMPACT VALUE IZOD							
	N/mm2 / MPA		/MPA															
	Specified		1090-1370		7.35 min		8 min		25 J min									
	Observed		1140-756		957.843		23.78%		30 J									
	As Rolled Hardness (BHN (Max / Min) (If Required in TDC/Customer)																	
	1	2	3	4	5													
	166	168	169	170	171													
(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 200x200 REDUCTION RATIO : 14.15:1 (If Required In TDC/Customer) As Per Mill TC																		
(14) DECARB LEVEL : (AS PER IS 6396 / ASTM E1077)	Specified	0.60 mm max																
	Observed	PD	0.20													FD		
(15) UPSETABILITY 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.		Mill Tc Date		Verified By :												
	2F1001 R3	25021225		21/12/25														
(18) MIX-UP TEST (If Required in TDC/Customer)	Verified By Mobile Spectro / X-Ray Gun/Spark Test																	
	Accepted	2															Rejected	
Other Remarks																		
Checked By	Approved By																	

