



## RAW MATERIAL INCOMING INSPECTION REPORTS

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

Report No	1737	SECTION :-	704M	HAET NO :-	53426	INVOICE NO. :-	SE-24Y-15010											
DATE	14/12/25	STEEL SUPPLIER :-	SLR	REC.QTY :-	32.340	INVOICE DATE :-	10/02/2025											
GRADE	2017MCRS	STEEL TC NO :-	25020354	NO. OF BARS :-														
Process /Mfg Route																		
Chemistry	%C	%Mn	%Si	%S	%P	%Cr	%Ni	%Mo	%Al	%Cu	%As	%Sb	%V	%Pb	%Ca	%Nb	%Ti	%B
Min	0.150	1.000	0.150	0.015	—	1.000	—	—	0.020	—	—	—	—	—	—	—	—	—
Max	0.200	1.300	0.400	0.030	0.020	1.300	0.200	0.100	0.030	0.300	—	—	—	—	0.0010	—	—	0.0005
Mill Tc Value	0.176	1.240	0.255	0.024	0.014	1.255	0.016	0.010	0.030	0.018	0.0010	0.0007	0.006	0.0010	0.006	0.007	0.0035	0.0005
Spectro Value	0.175	1.245	0.252	0.024	0.017	1.276	0.018	0.002	0.029	0.009	—	—	0.005	—	—	0.003	0.005	0.004

Bar Size	(As per WI...)	Qty: 10 % Of Total Heat										
No of Bar Checked												
S NO.	1	2	3	4	5	6	7	8	9	10	11	12
	70.2	70.4	70.3	70.6	70.8	70.2	70.4	70.1	70.7	70.9		

Gas Content (PPM): As per Mill Tc		N2	H2	O2
Min		60.0	—	—
Max		120.0	2.50	20.0
Value		81.4	1.14	15.2
Mill Tc				

Steel Supply Condition:	As Rolled
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MACRO	(i)	Internal soundness Sample : (ASTM E381 or as per customer)	SJ	RJ	C2
	(ii)	Dendrite structure 01 sample :	222	222	222
	(iii)	Step Down Test Sample : (IS4075 or as per customer)			OK

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

ULTRASONIC TEST (AS PER ASTM A388) :	Mill Tc	100% Pass OK
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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
Cust Spec. If Any	2.0	1.5	2.0	1.0	0.5	0.5
Mill Tc	1	0	0.5	0	0	0
SSB	1	0	0.5	0	0	0

GRAIN SIZE :	Spec. :-	5-8	Mill Tc	7	SSB	6.5
(ASTME112 / IS-4748)						

JOMINY HARDENBILITY	Distance	J1.5	J5	J10	J15	J20	J25	J30						
IS-3848 /ASTMA255	Specified	410-460	380-440	320-380	270-330	270-330	255-320	245-310						
(As per required by Customer)	Mill Tc	43.5	42.0	34.5	31.6	29.3	27.4	26.5						
	Observed	43	40	35	33	28	27	25						

MECHANICAL PROPERTIES : (If Required in TDC /Customer )	As per IS:1608/ ASTM A 370	As per IS: 1757			
	U.T.S	%EL	IMPACT VALUE	IMPACT VALUE	
	N/mm2 /MPA	/MPA	CHERRY	IZOD	
Specified	1930-1570	930	7 min	25 J min	
Observed	1317-756	1332-665	23.78%	40 J	
As Rolled Hardness					
(BHN (Max / Min)					
(If Required in TDC /Customer)					
	1	2	3	4	5
	161	163	163	164	165

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

REDUCTION RATIO :	Specify 7:1 min	BLOOM SIZE - 200X200	REDUCTION RATIO : 10:39:1
(If Required in TDC /Customer)	As Per Mill TC		

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

UPSETIBILITY TEST (AS PER IS 10167) :	OK
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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. :-	25020354	Mill Tc Date	10/02/25	Verified By :-	
(If Required in TDC /Customer)	Rev No. 03						

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

Other Remarks	Approved By
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Checked By



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