

RAW MATERIAL INCOMING INSPECTION REPORTS

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

1789
31355
6mm Gr
SECTION :- 6mm
STEEL SUPPLIER :- SUR
STEEL TC NO :- 25031232
HAET NO :- 54936
REC.QTY :- 5.590
INVOICE NO. :-
INVOICE DATE :- 17541
25/3/25
MBF-EOP-CRF-VD-CCM-EMS-AMIC-RMS
42

Process / Mfg Route	%C	%Mn	%Si	%S	%P	%Cr	%Ni	%Mo	%Al	%Cu	%As	%Sb	%V	%Pb	%Ca	%Nb	%Ti	%B
0130	1.00	0.450	0.015	0.003	0.002	0.300	0.000	0.000	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0180	1.00	0.450	0.015	0.003	0.002	0.300	0.000	0.000	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0169	1.00	0.450	0.015	0.003	0.002	0.300	0.000	0.000	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0128	1.00	0.450	0.015	0.003	0.002	0.300	0.000	0.000	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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

S.NO.	1	2	3	4	5	6	7	8	9	10	11	12
60.3	60.0	60.1	60.4	60.6	60.2	60.5	60.1	60.3	60.2	60.5	60.2	

Gas Content (PPM): As per Mill Tc

	N2	H2	O2
Min	60		
Max	120	2.5	20
Value	68.2	1.13	15.4
Mill Tc			

Steel Supply Condition: HOT ROLLED

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

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

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	1.5	0.5	0.5	0.0	0.0	0.0	0.5	0.0		
SSB	1.5	0.5	0.5	0.0	0.0	0.0	0.5	0.0		

GRAIN SIZE : Spec:- 5-8 Mill Tc 7.5 SSB 6

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

	Distance	1.5	5	10	15	20	25	30
Specified	34.4	34.5	40.5	40.5	40.5	40.5	40.5	40.5
Mill Tc	40.6	38	37	37	37	37	37	37
Observed	40.6	37	37	37	37	37	37	37

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 CHERRY	IMPACT VALUE IZOD
Specified	1030-1370	475 min	8 min	25 J min	
Observed	1085-1090	1060.165	28%	40 J	

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

	1	2	3	4	5
161	162	164	165	165	

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		0.18		

UPSETABILITY TEST (AS PER IS 10167) : OK

Test Certificate verified for Each Heat no :

	Available & Ok	Not Available	Not Conforming
1			

TDC / Customer STD (If Required in TDC / Customer) SSB/TDC/ Mill Tc No. 25031232 Mill Tc Date 25/3/25 Verified By : [Signature]

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

	Accepted	Rejected
1		

Other Remarks : [Signature]

Checked By : [Signature] Approved By : [Signature]