



RAW MATERIAL INCOMING INSPECTION REPORTS

D.C. No. :- F/05/01
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1776	SECTION :-	50mm	HAET NO. :-	8419	INVOICE NO. :-	5897											
29/3/25	STEEL SUPPLIER :-	Manistee	REC.QTY :-	32100kg	INVOICE DATE :-	25/3/25											
CHESCOH	STEEL TC NO. :-	605	NO. OF BARS :-	148													
Process / Mfg Route: EAF + LF + FVS + CCM + EMS																	
%C	%Mn	%Si	%S	%P	%Cr	%Ni	%Mo	%Al	%Cu	%As	%Sb	%V	%Pb	%Ca	%Nb	%Ti	%B
0.180	0.200	0.150	0.020		0.400	0.400	0.150	0.020									
0.220	0.200	0.350	0.035	0.035	0.600	0.200	0.250	0.050	0.300					0.0015			0.0005
0.210	0.540	0.180	0.023	0.016	0.545	0.446	0.188	0.024	0.120			0.0033		0.0006		0.0025	0.0004

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

Diameter/Section Size (in mm)												
S.NO.	1	2	3	4	5	6	7	8	9	10	11	12
	80.3	80.1	80.5	80.0	80.3	80.1	80.3	80.4	80.2	80.1	80.4	80.2

Gas Content (PPM): As per Mill Tc

	N2	H2	O2
Min	60		
Max	120	2.5	20
Value	78	0.006	13
Mill Tc			

Steel Supply Condition:

Hot Rolled

MACRO

(i) Internal soundness Sample : (ASTM E381 or as per customer)

S R C
SP RP CR

(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

P+F+B

SSB

P+F+B

ULTRASONIC TEST (AS PER ASTM A388) :

Mill Tc

100% Done OK

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
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	1.0	0.0		
SSB	1.5	0.5	0.5	0.0	0.0	0.0	1.0	0.0		

GRAIN SIZE :

(ASTM E112 / IS-4748)

Spec. :-

6-8

Mill Tc

7

SSB

7.0

JOMINY HARDENBILITY

IS-3848 / ASTM A255

(As per required by Customer)

Distance

4/16

Specified

34-39

Mill Tc

36.5

Observed

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 CHARRY	IMPACT VALUE IZOD
Specified	1180-1580	930 MIN	20 MIN	27.5 MIN	
Observed	1310	1094	9	38.7	

As Rolled Hardness

(BHN (Max / Min)

(If Required In TDC / Customer)

1	2	3	4	5
165	168	172	174	170

VISUAL :

(i) Surface Condition 100 % Bars Checked
(ii) Heat No. 100 % Bars Checked
(iii) Color Code. 100 % Bars Checked

OK

OK

OK

REDUCTION RATIO :

Specify 7.1 Min

BLOOM SIZE - 200x200

REDUCTION RATIO : 8.0 : 1

(If Required In TDC / Customer) As Per Mill TC

DECARB LEVEL : (AS PER IS 6396 / ASTM E1077)

Specified

0.6 mm max

(If Required In TDC / Customer)

Observed

PD

0.12

FD

UPSET/BILITY TEST (AS PER IS 10167) :

OK

Test Certificate verified for Each Heat no. :

Available & OK

Not Available

Not Conforming

TDC / Customer STD

(If Required In TDC / Customer)

SSB/TDC/

Mill Tc No. 6009

Mill Tc Date

Verified By :

FPL-PTS-02-04, REV 06

25/3/25

MIX-UP TEST

(If Required In TDC / Customer)

Verified By Mobile Spectro / X-Ray Gun / Spark Test

Accepted

Rejected

Other Remarks

Checked By

Approved By

