

RAW MATERIAL INCOMING INSPECTION REPORTS

D.C. No. :- F/05/01
Issue no. :- 01, 01.07.2018
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1779	SECTION :-	56MM	HAET NO. :-	174210	INVOICE NO. :-	17124-25/0021572
19/5/25	STEEL SUPPLIER :-	ARORA	REC.QTY :-	20800 KG	INVOICE DATE :-	18-03-2025
40102	STEEL TC NO. :-	0029774	NO. OF BARS :-	192		
Process/Mfg Route: EHF-LRF-KD-CCM-AMLC-EMS-RM						
%C	%Mn	%Si	%S	%P	%Cr	%Ni
0.370	0.500	0.450	0.020	-	0.280	-
0.440	0.500	0.400	0.040	0.035	0.320	0.120
0.475	0.740	0.250	0.026	0.017	0.280	0.120
%Mo	%Al	%Cu	%As	%Sb	%V	%Nb
-	0.020	-	-	-	-	-
0.050	0.250	-	-	-	-	-
0.025	0.135	-	-	-	-	-
%Ti	%B					
-	0.005					
0.009	0.003					

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

S NO.	1	2	3	4	5	6	7	8	9	10	11	12
	56.2	56.1	56.4	56.7	56.5	56.3	56.5	56.9	56.3	56.2		

Gas Content (PPM): As per Mill Tc

	N2	H2	O2
Min	60	-	-
Max	120	2.5	20
Value	77.0	0.79	11.00
Mill Tc			

Steel Supply Condition:

AS HOT ROLLED

MACRO

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

S3 R3 C3
251 251 252

(ii) Dendrite structure O1 sample:

(iii) Step Down Test Sample: (IS4075 or as per customer)

OK

Micro structure As Rolled:

Micro structure: (or as per customer)

Mill Tc

SSB

Banding OK as per UNI 8449 max of 8R4 is acceptable.
P.F.F.

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	3.0	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:

(ASTME112 / IS-4748)

Spec:- 5-8 Mill Tc 6.0 to 7.0 SSB 6

JOMINY HARDENBILITY

IS-3848 /ASTMA255

(As per required by Customer)

Distance												
Specified												
Mill Tc												
Observed												

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	700-840	490	15	255 J	
Observed	773	540	16.8	38 J	

As Rolled Hardness

(BHN (Max / Min)

(If Required In TDC /Customer)

	1	2	3	4	5
	190	195	198	200	209

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 mm BLOOM SIZE - 200X200 REDUCTION RATIO: 16:25:1

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

DECARB LEVEL:

(AS PER IS 6395 /ASTM E1077)

(If Required in TDC /Customer)

Specified	Observed	PD	FD
0.6 mm	0.21 mm		

UPSETIBILITY TEST (AS PER IS 10167):

OK

Test Certificate verified for Each Heat no :

Available & Ok	Not Available	Not Conforming
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

TDC / Customer STD

(If Required In TDC /Customer)

SSB/TDC/

Mill Tc No

Mill Tc Date

Verified By:

Q.F. 1001-R3. Jattid
14-06-2024

18-03-2025

Sey

MIX-UP TEST

(If Required in TDC /Customer)

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

Accepted	Rejected
<input checked="" type="checkbox"/>	<input type="checkbox"/>

Other Remarks

Checked By

Approved By