

SSB

RAW MATERIAL INCOMING INSPECTION REPORTS

D.C. No. : 8/95/01
Issue No. : 01.01.07 2018
Rev. No. : 02, 11.05.23

HT No. : 1743	SECTION : 60mm	HAET NO. : 52705	INVOICE NO. : 56244-12.576
31/12/2024	STEEL SUPPLIER : SLR	REC QTY : 35320kg	INVOICE DATE :
16mm25	STEEL TC NO. : 24121171	NO. OF BARS :	

Process / Mfg Route

%C	%Mn	%Si	%S	%P	%Cr	%Ni	%Mo	%Al	%Cu	%As	%Sb	%V	%Nb	%Ca	%Fe	%Ti	%B	
0.13	1.0	0.15	0.015	—	0.8	—	—	0.02	—	—	—	—	—	—	—	—	—	
0.18	1.3	0.4	0.03	0.02	1.1	0.3	0.1	0.05	0.3	—	—	—	—	—	—	—	—	
0.17	1.3	0.284	0.025	0.02	1.067	0.018	0.008	0.032	0.02	0.002	0.001	0.005	0.001	0.004	0.001	0.005	0.005	
0.17	1.268	0.262	0.028	0.015	1.035	0.012	0.003	0.032	0.007	—	—	0.003	—	—	—	0.004	0.005	0.005

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

Bar Checked : 10

SNO	1	2	3	4	5	6	7	8	9	10	11	12
60	59.9	59.8	59.7	59.6	59.5	59.4	59.6	59.7	59.8	59.6		

Gas Content (PPM) As per Mill Tc

	N2	H2	O2
Min	60	—	—
Max	120	2.5	20
Value			
Mill Tc	88.2	1.33	151

Steel Supply Condition : AS Rolled

MACRO

(i) Internal soundness Sample : (ASTM E381 or as per customer) Value Obs. 53 RS C2 > 52 > 22 > 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 F + P

SSB F + P

ULTRASONIC TEST (AS PER ASTM A388) :

Mill Tc 100 % 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	0.5		
SSB	1.5	0.5	0.5	0.0	0.0	0.0	0.5	0.5		

GRAIN SIZE :

Spec. : 5-8 Mill Tc 7.5 SSB 7.0

JOHNNY HARDENBILITY IS-3848 /ASTMA255 (As per required by Customer)

Distance	51.5	35	30	35	320	325	330										
Specified	79.44	74.5	79.35	75.31.5	72.5-23	71-24.5	70-26.5										
Mill Tc	42.1	39.5	32.8	25.4	23.7	22	20.4										
Observed	40	39	30	26	24	22	21										

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 /MPA	%EL	IMPACT VALUE CHARRY	IMPACT VALUE IZOD
Specified	1030-1370	735-745	8	25	
Observed	1054	924	16.2	39.7	

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

1	2	3	4	5
163	165	167	169	171

VISUAL :

(i) Surface Condition 100 % Bars Checked OK NO (Rust, Cracks, CHARGES, COATINGS)

(ii) Heat No. 100 % Bars Checked OK (52705)

(iii) Color Code. 100 % Bars Checked OK (MATH. PA. K + GREEN)

REDUCTION RATIO : Specify BLOOM SIZE : 200 X 200 REDUCTION RATIO : [4.15:1]

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

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

Specified	0.36 MAX
Observed	0.24

(If Required in TDC /Customer)

UPSETIBILITY TEST (AS PER IS 10167) :

Test Certificate verified for Each Heat no :

Available & Ok	Not Available	Not Conforming
OK		

TDC / Customer STD SSB/TDC/ Mill Tc No Mill Tc Date Verified By :

(If Required in TDC /Customer)

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