



## 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	1359	SECTION :-	120mm	HAET NO. :-	8218	INVOICE NO. :-	540									
DATE :-	24/1/25	STEEL SUPPLIER :-	Anah Steel	REC.QTY :-	29865kg	INVOICE DATE :-	22/12/25									
GRADE :-	SAB 1053	STEEL TC NO. :-	5489	NO. OF BARS :-	60											
Process / Mfg Route	EAF + LF + VD + CCM + EMC															
Chemistry	%C	%Mn	%Si	%S	%P	%Cr	%Ni	%Mo	%Al	%Cu	%As	%Sb	%V	%Nb	%Ti	%B
Min	0.48	0.60	0.15	0.015					0.020							
Max	0.55	0.90	0.40	0.035	0.035	0.250	0.250	0.060	0.050	0.050				0.010		0.0005
Mill Tc Value	0.493	0.79	0.253	0.003	0.022	0.186	0.069	0.012	0.020	0.180			0.0029	0.0001	0.010	0.0005
Spectro Value	0.485	0.820	0.218	0.027	0.006	0.153	0.062	0.013	0.025	0.157			0.003		0.002	0.0004

Bar Size (As per WI...)	Qty : 10 % Of Total Heat											
5 NO.	1	2	3	4	5	6	7	8	9	10	11	12
No of Bar Checked	120.3	120.5	120.7	120.2	120.4	120.2	120.3	120.6	120.8	120.7	120.5	120.7

Gas Content (PPM): As per Mill Tc	N2	H2	O2
Min	60		
Max	120	2.5	20
Value			
Mill Tc	79	0.826	13

Steel Supply Condition:	Hot Rolled
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MACRO	(i) Internal soundness Sample : (ASTM E381 or as per customer)	S	R	C
	Value Obs.	S2	R0	C0
	(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	Pt F
SSB	Pt F

ULTRASONIC TEST (AS PER ASTM A388) :	Mill Tc	100% Done
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INCLUSION RATING ( IS 14163 /ASTM: E454 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 : (ASTME112 / IS-4748)	Spec. :-	5-8	Mill Tc	6.5	SSB	6
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JOMINY HARDENBILITY IS-3848 /ASTMA255 (As per required by Customer)	Distance	1.5	3	5	7	9	11	13	15	20	25	30
	Specified	59-63	50-61	45-58	32-50	29-41	26-36	25-33	24-31	22-30	20min	20Min
	Mill Tc	59	57.5	45.5	34	32.5	31.5	30.5	29	28	26	24
	Observed	58	57	45	34	32	30	30	28	26	24	21

MECHANICAL PROPERTIES : (If Required in TDC /Customer )	As per IS:1608/ ASTM A 370	As per IS: 1757				
	U.T.S	Y.S	N/mm2	%EL	IMPACT VALUE CHARRY	IMPACT VALUE IZOD
	N/mm2 /MPA	/MPA				
Specified	930-1130	706 min		8 min	30 min	
Observed	946-268	736.071		13.141%	38 J	
As Rolled Hardness (BHN (Max / Min) (If Required in TDC /Customer )	1	2	3	4	5	
	188	189	190	191	192	

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	BLOOM SIZE -	240x240	REDUCTION RATIO : 5:1:1
(If Required in TDC /Customer )	As Per Mill Tc		

DECARB LEVEL : (AS PER IS 6396 /ASTM E1077)	Specified		
(If Required in TDC /Customer )	Observed	PD	0.20

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 (If Required in TDC /Customer )	SSB/TDC/	Mill Tc No. 5489	Mill Tc Date 22/12/25	Verified By :
		QF1001R3		

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