

RAW MATERIAL INCOMING INSPECTION																
1728		SECTION :-	80	MAET NO :-	50573	INVOICE NO :-	16247-08 3/6									
29/10/24		STEEL SUPPLIER :-	SLR	REC QTY :-	1880 Kg	INVOICE DATE :-	26/10/24									
20mmxH/L		STEEL TC NO :-	24100364	NO OF BARS :-												
Process / Mfg Route		XS1	XS	XP	XC1	XC2	XC3	XC4	XC5	XC6	XC7	XC8	XC9	XC10	XC11	XC12
XC	MMn															
0.14	1.1	0.15	0.02	-	1.0	-	-	0.02	-	-	-	-	-	-	-	-
0.22	1.4	0.4	0.04	0.035	1.3	-	-	0.04	-	-	-	-	-	-	-	-
0.156	1.23	0.244	0.032	0.013	1.148	-	-	0.029	-	-	-	-	-	-	-	-
0.184	1.26	0.209	0.023	0.016	1.138	0.018	0.002	0.025	0.007	-	-	0.002	-	0.002	0.004	0.003

Bar Size	(As per WI...)	Qty 10 % Of Total Heat	Diameter/Section Size (in mm)											
			1	2	3	4	5	6	7	8	9	10	11	12
SNO	1	2	3	4	5	6	7	8	9	10	11	12		
80	79.9	79.8	79.7	79.6	79.5	80.1	80.2	80.3	80.4	80.2				

Gas Content (PPM): As per Mill Tc	N2	H2	O2
Min	—	—	—
Max	96	2.6	20.6
Value Mill Tc	87.2	1.51	15.2

Steel Supply Condition: AS ROLLED

MACRO	(i)	Internal soundness Sample : (ASTM E381 or as per customer) Value Obs.	$\frac{52}{252}$	$\frac{R2}{2R2}$	$\frac{C2}{2C2}$
	(ii)	Dendrite structure 01 sample :			
	(iii)	Step Down Test Sample : (IS4075 or as per customer)			0.15

Micro structure As Rolled : Micro structure : (as as per customer)

Mill To Femite + Pearlite

SSB Femite + Pearlite

ULTRASONIC TEST (AS PER ASTM A388):

INCLUSION RATING (IS 14163 / ASTM: E45A OR REQUIRED BY CUSTOMER)										DS	
	A		B		C		D				
	Sulphide		Aluminate		Silicate		Oxide				
	TN	TK	TN	TK	TN	TK	TN	TK	TN	TK	
Cust Spec. if Any	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0			
Mil Tc	2.0	0.5	0.5	0.0	0.0	0.0	1.0	0.0			
SSB	2.0	0.5	0.5	0.0	0.0	0.0	1.0	0.0			

GRAIN SIZE : (ASTM E112 / IS-4748)	SPEC. 5-8	MILIT. 7.0	SSB	6.5
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[illegible]

MECHANICAL PROPERTIES : (If Required in TDC /Customer)	As per IS:1608/ ASTM A 370			As per IS: 1757	
	U.T.S	Y.S	NEL	IMPACT VALUE	IMPACT VALUE
	N/mm2 /MPA	N/mm2 /MPA		CHARRY	1000
Specified	1200-1420	885 min	8 min		25
Observed	1264	1172	14.1		372

	1	2	3	4	5
As Rolled Hardness (BHN (Max / Min) (If Required in TDC / Customer)	173	175	177	173	181

VISUAL:		100 % Bars Checked	OK	NO (has 4th gr. rust, can't)
(ii)	Surface Condition	100 % Bars Checked	OK	1 (50523)
(iii)	Heat No.	100 % Bars Checked	OK	(yellow + A14e)
(iv)	Color Code.	100 % Bars Checked	OK	

REDUCTION RATIO: Specify BLOOM SIZE - 200X200 REDUCTION RATIO: 7.96:1
(If Required in TDC /Customer) As Per Mill TC

DECARB LEVEL: (AS PER IS 6396 / ASTM E1077) (If Required in TDC / Customer)	Specified	0.8mm			
	Observed	PD	0.2	PD	

UPSETABILITY TEST (AS PER IS 10157):

Test Certificate verified for Each Heat no :	Available & Ok	Not Available	Not Conforming
	OK		

TDC / Customer STD (If Required in TDC /Customer)	SSB/TDC/	Mill To No.	Mill To Date	Verified By :
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SAFETY TEST	Verified By Mobile Spectro / X-Ray Gun/Spark Test
(If Required by TDC /Customer)	
Accepted	Rejected