

## LUDHIANA STEEL ROLLING MILLS

(AN ISO 9001:2015 & ISO 14001:2015 CERTIFIED CO.)

## METALLURGICAL TEST REPORT

Date (mm/dd/yyyy): 10/24/24

Customer's Name M/S S.S.B ENGINEERS PVT	The second secon	Customer's P O		Our Invoice	
Manufacturing Process	Condition	No. Quantity (MT)	-	Quantity (Pcs)	9
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CHEMICAL ANALYSIS ASTM EATE 14/10 0044 4000 (ACCORDING TO EN10204, TYPE 3.1)

CHEWICAL	MALT 515	ASIME	415-14	/IS 881	1.1998	(ACCOF	DING	1 CHILDRA	1.4111		gentlebelle better
	%C	%Mn	%S	%P	%Si	%Ni	%Cr	%Мо	%Cu	%AI	569
SPECIFICATION	.3442	.3060	.030 MAX	.030 MAX	1.10-	44.84	1.30- 1.60	2502	A N TO	A COMPANY OF THE PARTY OF THE PARTY.	
ACHIEVED	.39	.58	.020	.027	1.23		1.40		Carry grows with the a free can take	575	A Acres & March 1997
Heat No.	Grade				Size				Color	STREET, LINE WILLIAM A THE PERSON	
B-23957	38XC				90-ROUND			BLACK			

METALLOGRAPHIC PROPERTIES

Inclusion Rating IS: 4163/ ASTM E45A									Grain Size		Surface Decar.			
	A		В			С				D	IS4748 /ASTM E112		(mm) / IS 6396 /	
TH	TN	TH	TN	1	TH		TN		TH	TN			ASTM E1077	
1.0	2.0 · Max	1.0	1.5 -	Max	1.0		1.5 - Max		1.0	2.0 - Max	5.0 To 8.0		and the contract of the contra	
	1.5		1.0	,			0.5			2.0	6.5			
N	Micro Struct	ure	J2/16	(IS 3848 / ASTM A255, SAEJ406) Inspection S		INTERNAL SOUNDNESS ASTM E-381	STEP DOWN TEST IS 407	SPECTRO SPARK						
	FERRIPEARLI	TE								Satisfactory	Better than C2 R2 S2	ОК	100% OK	

MECHANICAL PROPERTIES (IS 1608 / ASTM A370)

UTS N/mm²	YS N/mm²	Elongation %	Reduction In Area %	Bend Test	Impact Value Joules	SURFACE Hardness BHN					
REQUIRED											
			******								
			*****	650.60	*****						

## ULTRASONIC TEST ASTM A388 / IS 2417

NO RECORDABLE DISCONTINUTY INDICATION OBSERVED, ACCEPTABLE AS PER ASTM-SA388 100% UT OKAY

It is hereby certified that the above steel is satisfactory in quality and quantity in compliance with requirement specified in the contract.

We stand quarantee for full length material only

For Ludbiana Steel Rolling Mills

Quality Assurance

**LUDHIANA STEEL ROLLING MILLS** 

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