

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	Date (minidaryyyy). 10124124				
M/S S.S.B ENGINEERS PVT. LTD.	Customer's P O	Our Invoice			
Manufacturing	No.	No.	1		
E. I. F.	Quantity (MT)	Quantity	0		
AS ROLLED		(Pcs)			

CHEMICAL ANALYSIS ASTM E415-14/IS 8811-1998 (ACCORDING TO EN10204, TYPE 3.1)

B-23958	Grade 38XC				90-ROUND				BLACK			
Heat No.					Size				Color Code			
ACHIEVED	,38	.55	.920	.020	1.15		1.37			.023		
SPECIFICATION	.3442	.3060	.030 MAX	.030 MAX	1.10- 1.4		1.30- 1.60					
	%C	%Mn	%S	%P	%Si	%Ni	%Cr	%Мо	%Cu	%AI	%V	
The state of the s	1111010	MOTIVIE	415-14	115 881	1-1998	(ACCOR	DING I	D FINTOSC	14,1176	3.1)		

METALLOGRAPHIC PROPERTIES

	A	Inc	usion I	Rating	IS : 41	63/ AS	TM E4	5A			Grain Siz	Surface Decar. (mm) / IS 6396 / ASTM E1077		
TH	TN	TH	TI		TII	- C		-		D	IS4748 /ASTM E112			
and the same of th		-		•	TH		TN		TH	TN				
1.0	2.0 - Max	1.0	1.5 -	Мах	1.0	1	l.5 - Max		1.0	2.0 - Max	5.0 To 8.0			
	2.0		0.9	5			1.0			1.5	6.5			
N	Micro Structi	ıre	J2/16	J3/16	Harde (IS 3848 J4/16	nability / ASTM J5/16	A255, 5	SAEJ40 J7/16	6) J8/16	Surface Inspection IS 133352	INTERNAL SOUNDNESS ASTM E-381	STEI DOW TES1 IS 407	N T	MOBILE SPECTRO! SPARK TEST
	FERR/PEARLI	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 %			SURFACE Hardness BHN	
			REQUIRED				
*****	*****	*****	*****				
*****			*****		******		

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 guarantee for full length material only

For Ludhiana Steel Rolling Mills

Quality Assurance

LUDHIANA STEEL ROLLING MILLS

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