

Arfan Nazir

Test Performed By:

Dr. /Engr.

Nauman Khurram

Manager Civil, Nishat Mills Ltd. Lahore. Nishat Group (Dyeing & Finishing Plant Lahore)

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Client Reference: NDF/SST/010

SOM Lab Ref:

Dated: 08-02-2023

Dated:

08-02-2023

Test: Tension Test

Test Specification:

ASTM-A-615

Gauge Length: 200 mm

Sample Type:

MS Def Bar (Siraj Steel)

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	kg/m	mm	mm	mm ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	3.931	25	25.26	491	501	220.70	330.50	449	441	673	660	45.0	200	22.5	
2	3.997	25	25.46	491	509	229.50	344.70	467	451	702	678	45.0	200	22.5	
3	2.159	20	18.71	314	275	130.70	198.20	416	476	631	721	45.0	200	22.5	
4	2.183	20	18.82	314	278	130.50	197.70	416	470	630	711	37.5	200	18.8	
5	1.562	16	15.92	201	199	95.70	139.50	476	481	694	702	35.0	200	17.5	
6	1.590	16	16.06	201	203	97.70	143.00	486	483	711	706	32.5	200	16.3	
7	1.003	12	12.76	113	128	60.00	92.00	531	470	814	720	37.5	200	18.8	
8	1.010	12	12.80	113	129	59.70	91.00	528	465	805	708	32.5	200	16.3	
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BEND TEST:

25mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Twelve Samples Received and Tested
20mm	Sample bend through 180 degrees Satisfactorily without any crack	
16mm	Sample bend through 180 degrees Satisfactorily without any crack	
12mm	Sample bend through 180 degrees Satisfactorily without any crack	

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

Engineer Muhammad Irshad
Asst Dir Dev. DHA Gujranwala.(Sector G)

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: 111/15/AD/RS/Pkg-2B/1259

SOM Lab

Ref: 1723 (Page-1/1)

Dated: 08-02-2023

Dated: 08-02-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar (Union Steel)

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	lb/ft	#	in	in ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.663	4	0.498	0.20	0.195	6.12	7.51	67450	69180	82850	84970	1.10	8.0	13.8	
2	0.673	4	0.502	0.20	0.198	6.09	7.46	67110	67790	82290	83120	1.10	8.0	13.8	
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BEND TEST:

# 4	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Three Samples Received and Tested

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk