

Abid Rauf,RE

Test Performed By: Dr. /Engr. Nauman Khurram

Nespak Gujranwala.(Const Of Dual Carriageway From GT Road To Lahore-Sialkot Motorway)

Client Reference: 103/EW/GRW/AR/Lab/42

Dated: 08-01-2024

SOM Lab Ref: CED/SOM/3483 (Page-1/1)

Dated: 10-01-2024

Test: Tension Test

Test Specification: ASTM-A-615

Sample Type: Deformed Bar (Mughal Steel)

Gauge Length: 200 mm

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 <sup>2</sup>	mm <sup>2</sup>	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	0.893	12	12.05	113	114	64.70	81.20	572	568	718	713	27.5	200	13.8	
2	0.903	12	12.10	113	115	67.00	81.50	592	583	721	709	27.5	200	13.8	
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**BEND TEST:**

12mm	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Three Samples Received and Tested

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Meezan Developers  
Lahore.(Const Of Jamia Tur Rasheed Lahore Campus)

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: Nil

SOM Lab

Ref: 3481 (Page-1/1)

Dated: 10-01-2024

Dated: 10-01-2024

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.625	8	0.991	0.79	0.771	26.66	34.15	74420	76250	95340	97680	1.40	8.0	17.5	
2	2.628	8	0.991	0.79	0.772	26.50	33.84	73990	75720	94480	96680	1.50	8.0	18.8	
3	1.485	6	0.745	0.44	0.436	15.36	19.34	77000	77710	96930	97820	1.30	8.0	16.3	
4	1.480	6	0.744	0.44	0.435	15.65	19.39	78430	79330	97180	98300	1.30	8.0	16.3	
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**BEND TEST:**

# 8	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Six Samples Received and Tested
# 6	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](http://www.uet-civil.edu.pk)

Waqas Ali  
Variant Gulberg 2, Lahore.

Test Performed By: Dr. /Engr. Wasim Abbas

Client Reference: VA/29/129

SOM Lab

Ref: 3482 (Page-1/1)

Dated: 10-01-2024

Dated: 10-01-2024

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.503	6	0.750	0.44	0.442	16.00	18.76	80220	79860	94020	93590	1.40	8.0	17.5	
2	1.500	6	0.749	0.44	0.441	16.38	19.54	82110	81930	97950	97730	1.30	8.0	16.3	
3	0.668	4	0.500	0.20	0.196	8.23	9.58	90720	92570	105670	107820	1.00	8.0	12.5	
4	0.664	4	0.498	0.20	0.195	7.60	8.72	83860	86010	96110	98580	1.10	8.0	13.8	
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**BEND TEST:**

# 6	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Six Samples Received and Tested
# 4	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](http://www.uet-civil.edu.pk)

Abdul Jabbar  
Lahore.

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: Nil

SOM Lab

Ref: 3484 (Page-1/1)

Dated: 10-01-2024

Dated: 10-01-2024

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.490	6	0.747	0.44	0.438	14.80	20.54	74190	74530	102960	103430	1.40	8.0	17.5	
2	1.495	6	0.748	0.44	0.439	14.75	20.66	73940	74100	103570	103810	1.10	8.0	13.8	
3	0.677	4	0.503	0.20	0.199	6.75	9.17	74420	74790	101170	101680	1.20	8.0	15.0	
4	0.667	4	0.500	0.20	0.196	6.63	9.04	73070	74560	99710	101740	1.10	8.0	13.8	
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**BEND TEST:**

# 6	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Six Samples Received and Tested
# 4	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](http://www.uet-civil.edu.pk)

AK SMELTERS &  
RE-ROLLERS (Pvt) Ltd.

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: Nil

SOM Lab

Ref: 3485 (Page-1/1)

Dated: 10-01-2024

Dated: 10-01-2024

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.525	8	0.972	0.79	0.742	23.75	35.95	66310	70600	100370	106870	1.40	8.0	17.5	
2	1.489	6	0.747	0.44	0.438	13.35	21.68	66940	67240	108680	109180	1.30	8.0	16.3	
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**BEND TEST:**

--	No Bend test performed	<b>Note:-</b>  Only Two Samples Received and Tested

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)