

MATERIAL TESTING LABORATORY

MILITARY ENGINEER SERVICES (MES)

TEST RESULTS FOR TENSILE STRENGTH OF PLAIN/DEFORMED/RIBBED COLD TWISTED M.S. BARS

Job No : 183/19-20(Steel). Copy No. : 05

Name of Client : AGE (Air) Shamshernagar. Sample Specimen : Length 600 mm Dia 25mm

Ref Itr No : CE Air/286 of 2018-2019/09/E-6 Dt.26 September 2019. Sample Grade : 60

Project Name : CE Air/286 of 2018-2019. Frog Mark : AKS 500W
Date of Collection : Sunday, 29 September, 2019

Sample No	Nominal Dia	Actual Dia	Area Under Test	Actual Unit Weight	Average Actual Unit Weight	Yield or Proof Load	Yield or Proof Strength	Average Yield or Proof Strength	Ultimate Load	Ultimate Strength	Average Ultimate Strength		gation gauge gth)	Elong % (g	rage gation gauge gth)
	inch mm	inch mm	sq.inch sq.mm	lb/ft kg/m	lb/ft kg/m	lb kn	psi Mpa	psi Mpa	lb kn	psi Mpa	psi Mpa	8inch	5d**	8inch	5d**
1	0.984 25	0.984 24.984	0.7609 490.8739	2.586 3.849		61937.4 275.51	81405 561		76053.22 338.3	99958 689		24.5			
2	0.984 25	0.984 24.984	0.7609 490.8739	2.586 3.849	2.586 3.849	62153.22 276.47	81689 563	81722 563	76287.03 339.34	100265 691	100163 691	25		24	
3	0.984 25	0.984 24.984	0.7609 490.8739	2.586 3.849		62445.47 277.77	82073 566		76287.03 339.34	100265 691		23.5			

Cautions:

- 1. Samples as supplied to the laboratory have been tested. The laboratory authority does not bear any responsibility as to the representative charecter of the samples to be tested.
- 2. It is recommended that the samples are sent in a secure and sealed cover/packet/container under signature of the competent authority.
- 3. In order to avoid fraudulent fabrication of the test results, it is recommended that all test reports should be collected by duly authorized person and not by the contractor/supplier.

Observation on Specimen(if any):

1.Diameter & Unit weight of 25 mm bar is less than the standard value but within tolerance limit according to MES Schedule of Rates-2016.

Minimu	m Standard	Requiremen	its (BDS/ISO	Minimum Standard Requirments(ASTM A615/A616M-96a)										
6935-2:1991(E)				ASTM A 615 M			ASTM A 615 M			ASTM A 615/A 615 M				
Grade	Y/strength Ult.Str		Elongation	Grade	Y/strength	Ult.Str	Grade	Y/strength	Ult.Str	Minimum Elongation in 8"(203.2 mm) GL (%)				
	N/mm2 or Mpa	N/mm2 or Mpa	%		psi (kg/cm2)	psi (kg/cm2)		Mpa (kg/cm2)	Mpa (kg/cm2)	10 mm	13,16,19 mm	22,25 mm	29,32,36 mm	
300	300	330	16	40	40000(2810)	70000(4910)	300	300(3050)	500(5090)	11	12			
400/400w	400	440	14	60	60000(4210)	90000(6310)	420	420(4275)	620(6295)	9	9	8	7	
500/500w	500	550	14	75	75000(5255)	100000(7015)	520	520(5275)	690(7010)	1000	7	7	6	

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No signature is required

Note : [1 Mpa = 145 Psi, 1 kg/cm2 = 14.223 psi]

Laboratory Technichian

Test Performed By

Vetted By