

SAS thread bars grade 80/97/100 for geotechnical and reinforcing applications based on ASTM A615

SAS grade 80	#	8	9	10	11	14	18	20
	[in]	1	1 1/8	1 1/4	1 3/8	1 3/4	2 1/4	2 1/2
	[mm]	25	28	32	36	43	57.5	63.5
Item no.		250GL	280GL	320GL	360GL	430GL	575GL	635GL
max. d _A	[in]	1.14	1.26	1.42	1.61	1.89	2.48	2.76
$f_{yk}(f_{0,2k}) / f_{tk}/A_{gt}^{1)}$		80 ksi / 105 ksi / ≥ 5%						
F _{yk} (F _{0,2k})	[kips]	60.9	76.4	99.7	126.5	180.1	322.0	392.7
F _{tk}	[kips]	79.9	100.3	130.8	166.0	236.4	422.6	515.5
A	[in ²]	0.761	0.955	1.246	1.581	2.251	4.025	4.909
G	[lb/ft]	2.59	3.25	4.24	5.37	7.66	13.69	16.71

SAS grade 97	#	6	7	8	9	10	11	14	16	18	20	24
	[in]	3/4	7/8	1	1 1/8	1 1/4	1 3/8	1 3/4	2	2 1/4	2 1/2	3
	[mm]	18	22	25	28	30	35	43	50	57.5	63.5	75
Item no.		180AT	220AT	250AT	280AT	300AT	350AT	430AT	500AT	575AT	635AT	750AT
max. d _A	[in]	0.83	0.98	1.10	1.26	1.34	1.58	1.89	2.17	2.48	2.76	3.23
$f_{yk}(f_{0,2k}) / f_{tk}/A_{gt}^{1)}$		97 ksi / 116 ksi / ≥ 5%										
F _{yk} (F _{0,2k})	[kips]	38.2	57.1	73.8	92.6	106.3	144.6	218.4	295.2	390.4	476.2	664.3
F _{tk}	[kips]	45.7	68.3	88.3	110.8	127.1	173.0	261.1	353.0	466.9	569.4	794.4
A	[in ²]	0.394	0.589	0.761	0.955	1.096	1.491	2.251	3.043	4.025	4.909	6.848
G	[lb/ft]	1.34	2.00	2.59	3.25	3.73	5.07	7.66	10.35	13.69	16.71	23.30

SAS grade 100	#	6	7	8	9	10	11	14	16	18	20	24
	[in]	3/4	7/8	1	1 1/8	1 1/4	1 3/8	1 3/4	2	2 1/4	2 1/2	3
	[mm]	18	22	25	28	30	35	43	50	57.5	63.5	75
Item no.		180AT	220AT	250AT	280AT	300AT	350AT	430AT	500AT	575AT	635AT	750AT
max. d _A	[in]	0.83	0.98	1.10	1.26	1.34	1.58	1.89	2.17	2.48	2.76	3.23
$f_{yk}(f_{0,2k}) / f_{tk}/A_{gt}^{1)}$		100 ksi / 115 ksi / ≥ 5%										
F _{yk} (F _{0,2k})	[kips]	39.4	58.9	76.1	95.5	109.6	149.1	225.1	304.3	402.5	490.9	684.8
F _{tk}	[kips]	45.3	67.7	87.5	109.8	126.0	171.5	258.9	350.0	462.9	564.5	787.5
A	[in ²]	0.394	0.589	0.761	0.955	1.096	1.491	2.251	3.043	4.025	4.909	6.848
G	[lb/ft]	1.34	2.00	2.59	3.25	3.73	5.07	7.66	10.35	13.69	16.71	23.30

¹⁾ Percentage total elongation at maximum force

Weight specifications of bar and accessories are average values. The actual values may deviate due to fabrication tolerances.