

CARBON STEEL

METRIC THREADED RODS

DIAMETER	PITCH (mm)	STRESS AREA (mm²)	MINIMUM PROOF LOAD (N)								
			CLASS 4.6	CLASS 4.8	CLASS 5.6	CLASS 5.8	CLASS 6.8	CLASS 8.8	CLASS 9.8	CLASS 10.9	CLASS 12.9
M3	0.5	5.03	1130	1560	1410	1910	2210	2920	3270	4180	4880
M3.5	0.6	6.78	1530	2100	1900	2580	2980	3940	4410	5630	6580
M4	0.7	8.78	1980	2720	2460	3340	3860	5100	5710	7290	8520
M5	0.8	14.2	3200	4400	3980	5400	6250	8230	9230	11800	13800
M6	1	20.1	4520	6230	5630	7640	8840	11600	13100	16700	19500
M7	1	28.9	6500	8960	8090	11000	12700	16800	18800	24000	28000
M8	1.25	36.6	8240	11400	10200	13900	16100	21200	23800	30400	35500
M10	1.5	58	13000	18000	16200	22000	25500	33700	37700	48100	56300
M12	1.75	84.3	19000	26100	23600	32000	37100	48900	54800	70000	81800
M14	2	115	25900	35600	32200	43700	50600	66700	74800	95500	112000
M16	2	157	35300	48700	44000	59700	69100	91000	102000	130000	152000
M18	2.5	192	43200	59500	53800	73000	84500	115000	-	159000	186000
M20	2.5	245	55100	76000	68600	93100	108000	147000	-	203000	238000
M22	2.5	303	68200	93900	84800	115000	133000	182000	-	252000	294000
M24	3	353	79400	109000	98800	134000	155000	212000	-	293000	342000
M27	3	459	103000	142000	128000	174000	202000	275000	-	381000	445000
M30	3.5	561	126000	174000	157000	213000	247000	337000	-	466000	544000
M33	3.5	694	156000	215000	194000	264000	305000	416000	-	576000	673000
M36	4	817	184000	253000	229000	310000	359000	490000	-	678000	792000
M39	4	966	220000	303000	273000	371000	429000	586000	-	810000	947000

Reference ISO 898.1:2013

Whilst every care was taken in the preparation of this publication, Bremick® accepts no responsibility for the accuracy of the information supplied. Bremick® reserves the right to make alterations to specifications as part of ongoing development and improvement. This publication serves as a guide and it's the responsibility of the end user to ensure suitability for their application.
The contents of this publication are the exclusive copyright of Bremick® and may not be reproduced without permission.

Bremick Pty Ltd
Head Office | 88 Dalmeny Avenue, Rosebery 2018
National Distribution Centre | M5/M7 Logistics Park,
Warehouse 4B, 290 Kurrajong Road, Prestons NSW 2170
www.bremick.com.au

CARBON STEEL

METRIC THREADED RODS

DIAMETER	PITCH (mm)	STRESS AREA (mm ²)	NOMINAL STRESS UNDER PROOF LOAD (Mpa)								
			CLASS 4.6	CLASS 4.8	CLASS 5.6	CLASS 5.8	CLASS 6.8	CLASS 8.8	CLASS 9.8	CLASS 10.9	CLASS 12.9
M3	0.5	5.03	225	310	280	380	440	580	650	830	970
M3.5	0.6	6.78	225	310	280	380	440	580	650	830	970
M4	0.7	8.78	225	310	280	380	440	580	650	830	970
M5	0.8	14.2	225	310	280	380	440	580	650	830	970
M6	1	20.1	225	310	280	380	440	580	650	830	970
M7	1	28.9	225	310	280	380	440	580	650	830	970
M8	1.25	36.6	225	310	280	380	440	580	650	830	970
M10	1.5	58	225	310	280	380	440	580	650	830	970
M12	1.75	84.3	225	310	280	380	440	580	650	830	970
M14	2	115	225	310	280	380	440	580	650	830	970
M16	2	157	225	310	280	380	440	580	650	830	970
M18	2.5	192	225	310	280	380	440	600	650	830	970
M20	2.5	245	225	310	280	380	440	600	650	830	970
M22	2.5	303	225	310	280	380	440	600	650	830	970
M24	3	353	225	310	280	380	440	600	650	830	970
M27	3	459	225	310	280	380	440	600	650	830	970
M30	3.5	561	225	310	280	380	440	600	650	830	970
M33	3.5	694	225	310	280	380	440	600	650	830	970
M36	4	817	225	310	280	380	440	600	650	830	970
M39	4	966	225	310	280	380	440	600	650	830	970

Reference ISO 898.1:2013

Whilst every care was taken in the preparation of this publication, Bremick® accepts no responsibility for the accuracy of the information supplied. Bremick® reserves the right to make alterations to specifications as part of ongoing development and improvement. This publication serves as a guide and it's the responsibility of the end user to ensure suitability for their application.
The contents of this publication are the exclusive copyright of Bremick® and may not be reproduced without permission.

Bremick Pty Ltd
Head Office | 88 Dalmeny Avenue, Rosebery 2018
National Distribution Centre | M5/M7 Logistics Park,
Warehouse 4B, 290 Kurrajong Road, Prestons NSW 2170
www.bremick.com.au

CARBON STEEL

METRIC THREADED RODS

DIAMETER	PITCH (mm)	STRESS AREA (mm²)	MINIMUM ULTIMATE TENSILE LOAD (N)								
			CLASS 4.6	CLASS 4.8	CLASS 5.6	CLASS 5.8	CLASS 6.8	CLASS 8.8	CLASS 9.8	CLASS 10.9	CLASS 12.9
M3	0.5	5.03	2010	2110	2510	2620	3020	4020	4530	5230	6140
M3.5	0.6	6.78	2710	2850	3390	3530	4070	5420	6100	7050	8270
M4	0.7	8.78	3510	3690	4390	4570	5270	7020	7900	9130	10700
M5	0.8	14.2	5680	5960	7100	7380	8520	11350	12800	14800	17300
M6	1	20.1	8040	8440	10000	10400	12100	16100	18100	20900	24500
M7	1	28.9	11600	12100	14400	15000	17300	23100	26000	30100	35300
M8	1.25	36.6	14600	15400	18300	19000	22000	29200	32900	38100	44600
M10	1.5	58	23200	24400	29000	30200	34800	46400	52200	60300	70800
M12	1.75	84.3	33700	35400	42200	43800	50600	67400	75900	87700	103000
M14	2	115	46000	48300	57500	59800	69000	92000	104000	120000	140000
M16	2	157	62800	65900	78500	81600	94000	125000	141000	163000	192000
M18	2.5	192	76800	80600	96000	99800	115000	159000	-	200000	234000
M20	2.5	245	98000	103000	122000	127000	147000	203000	-	255000	299000
M22	2.5	303	121000	127000	152000	158000	182000	252000	-	315000	370000
M24	3	353	141000	148000	176000	184000	212000	293000	-	367000	431000
M27	3	459	184000	193000	230000	239000	275000	381000	-	477000	560000
M30	3.5	561	224000	236000	280000	292000	337000	466000	-	583000	684000
M33	3.5	694	278000	292000	347000	361000	416000	576000	-	722000	847000
M36	4	817	327000	343000	408000	425000	490000	678000	-	850000	997000
M39	4	966	390000	410000	488000	508000	586000	810000	-	1020000	1200000

Reference ISO 898.1:2013

CARBON STEEL

METRIC THREADED RODS

DIAMETER	PITCH (mm)	STRESS AREA (mm²)	MINIMUM TENSILE STRENGTH (MPa)								
			CLASS 4.6	CLASS 4.8	CLASS 5.6	CLASS 5.8	CLASS 6.8	CLASS 8.8	CLASS 9.8	CLASS 10.9	CLASS 12.9
M3	0.5	5.03	400	420	500	520	600	800	900	1040	1220
M3.5	0.6	6.78	400	420	500	520	600	800	900	1040	1220
M4	0.7	8.78	400	420	500	520	600	800	900	1040	1220
M5	0.8	14.2	400	420	500	520	600	800	900	1040	1220
M6	1	20.1	400	420	500	520	600	800	900	1040	1220
M7	1	28.9	400	420	500	520	600	800	900	1040	1220
M8	1.25	36.6	400	420	500	520	600	800	900	1040	1220
M10	1.5	58	400	420	500	520	600	800	900	1040	1220
M12	1.75	84.3	400	420	500	520	600	800	900	1040	1220
M14	2	115	400	420	500	520	600	800	900	1040	1220
M16	2	157	400	420	500	520	600	800	900	1040	1220
M18	2.5	192	400	420	500	520	600	830	900	1040	1220
M20	2.5	245	400	420	500	520	600	830	900	1040	1220
M22	2.5	303	400	420	500	520	600	830	900	1040	1220
M24	3	353	400	420	500	520	600	830	900	1040	1220
M27	3	459	400	420	500	520	600	830	900	1040	1220
M30	3.5	561	400	420	500	520	600	830	900	1040	1220
M33	3.5	694	400	420	500	520	600	830	900	1040	1220
M36	4	817	400	420	500	520	600	830	900	1040	1220
M39	4	966	400	420	500	520	600	830	900	1040	1220

Reference ISO 898.1:2013

Whilst every care was taken in the preparation of this publication, Bremick® accepts no responsibility for the accuracy of the information supplied. Bremick® reserves the right to make alterations to specifications as part of ongoing development and improvement. This publication serves as a guide and it's the responsibility of the end user to ensure suitability for their application.
The contents of this publication are the exclusive copyright of Bremick® and may not be reproduced without permission.