

## PRODUCT DESCRIPTION

Danterr supplies fully certified Class 8.8 and Grade 5 Threaded Rod. Our range is manufactured with fully threaded high-tensile bar that is sourced from the best suppliers in the world. All Danterr supplied Threaded Rod is certified by a NATA laboratory accredited for the tensile testing of fasteners.

## AREAS OF APPLICATION

- All civil, commercial and industrial concreting projects where the connect two materials is required

## BENEFITS

- Manufactured to Class 8.8 DIN975
- Manufactured to Grade 5 IFI136C
- Test & NATA Certificates online
- Available in 1m & 3m lengths
- Available in Hot Dip Galvanise, Zinc Yellow Passivate & Plain/Black

## METRIC MECHANICAL PROPERTIES

MINIMUM TENSILE STRESS (MPa or N/mm <sup>2</sup> )								
Nominal Size	Pitch mm	Stress Area mm <sup>2</sup>	Class 4.6	Class 8.8	Class 10.9	Sampsonrod™	Hobrod™	Brass
M3	0.50	5.03	400	800	1040	-	-	400
M4	0.70	8.78	400	800	1040	-	-	400
M5	0.80	14.20	400	800	1040	-	-	400
M6	1.00	20.10	400	800	1040	800	1040	400
M8	1.25	36.60	400	800	1040	800	1040	400
M10	1.50	58.00	400	800	1040	800	1040	400
M12	1.75	84.30	400	800	1040	800	1040	380
M14	2.00	115.00	400	800	1040	800	1040	-
M16	2.00	157.00	400	800	1040	800	1040	380
M18	2.50	192.00	400	830	1040	830	1040	-
M20	2.50	245.00	400	830	1040	830	1040	380
M22	2.50	303.00	400	830	1040	830	1040	-
M24	3.00	353.00	400	830	1040	830	1040	380
M27	3.00	459.00	400	830	1040	830	1040	-
M30	3.50	561.00	400	830	1040	830	1040	-
M33	3.50	694.00	400	830	1040	830	1040	-
M36	4.00	817.00	400	830	1040	830	1040	-
M39	4.00	976.00	400	830	1040	830	1040	-
M42	4.50	1121.00	400	830	1040	830	1040	-
M48	5.00	1473.00	400	830	1040	830	1040	-
M52	5.00	1758.00	400	830	1040	830	1040	-
M64	6.00	2676.00	400	830	1040	830	1040	-

MINIMUM TENSILE STRESS UNDER PROOF (MPa or N/mm <sup>2</sup> )								
Nominal Size	Pitch mm	Stress Area mm <sup>2</sup>	Class 4.6	Class 8.8	Class 10.9	Sampsonrod™	Hobrod™	Brass
M3	0.50	5.03	225	580	830	-	-	160
M4	0.70	8.78	225	580	830	-	-	160
M5	0.80	14.20	225	580	830	-	-	160
M6	1.00	20.10	225	580	830	580	830	160
M8	1.25	36.60	225	580	830	580	830	160
M10	1.50	58.00	225	580	830	580	830	160
M12	1.75	84.30	225	580	830	580	830	160
M14	2.00	115.00	225	580	830	580	830	-
M16	2.00	157.00	225	580	830	580	830	160
M18	2.50	192.00	225	600	830	600	830	-
M20	2.50	245.00	225	600	830	600	830	160
M22	2.50	303.00	225	600	830	600	830	-
M24	3.00	353.00	225	600	830	600	830	160
M27	3.00	459.00	225	600	830	600	830	-
M30	3.50	561.00	225	600	830	600	830	-
M33	3.50	694.00	225	600	830	600	830	-
M36	4.00	817.00	225	600	830	600	830	-
M39	4.00	976.00	225	600	830	600	830	-
M42	4.50	1121.00	225	600	830	600	830	-
M48	5.00	1473.00	225	600	830	600	830	-
M52	5.00	1758.00	225	600	830	600	830	-
M64	6.00	2676.00	225	600	830	600	830	-

MINIMUM PROOF LOAD (Kn)								
Nominal Size	Pitch mm	Stress Area mm <sup>2</sup>	Class 4.6	Class 8.8	Class 10.9	Sampsonrod™	Hobrod™	Brass
M3	0.50	5.03	1.13	2.92	4.17	-	-	0.80
M4	0.70	8.78	1.98	5.09	7.29	-	-	1.40
M5	0.80	14.20	3.20	8.24	11.79	-	-	2.27
M6	1.00	20.10	4.52	11.66	16.68	11.66	16.68	3.22
M8	1.25	36.60	8.24	21.23	30.38	21.23	30.38	5.86
M10	1.50	58.00	13.10	33.60	48.10	33.60	48.10	9.28
M12	1.75	84.30	19.00	48.90	70.00	48.90	70.00	13.49
M14	2.00	115.00	25.90	66.70	95.50	66.70	95.50	-
M16	2.00	157.00	35.30	91.10	130.30	91.10	130.30	25.12
M18	2.50	192.00	43.20	115.20	159.40	115.20	159.40	-
M20	2.50	245.00	55.10	147.00	203.30	147.00	203.30	39.20
M22	2.50	303.00	68.20	181.80	251.50	181.80	251.51	-
M24	3.00	353.00	79.40	211.80	293.00	211.80	293.00	56.48
M27	3.00	459.00	103.30	275.40	381.00	275.40	381.00	-
M30	3.50	561.00	126.20	336.60	465.60	336.60	495.60	-
M33	3.50	694.00	156.20	416.40	576.00	416.40	576.00	-
M36	4.00	817.00	183.80	490.20	678.10	490.20	678.10	-
M39	4.00	976.00	219.60	585.60	810.10	585.60	810.10	-
M42	4.50	1121.00	252.20	672.60	930.40	672.60	930.40	-
M48	5.00	1473.00	331.40	883.80	1222.60	883.80	1222.60	-
M52	5.00	1758.00	395.60	1054.80	1459.10	1054.80	1459.10	-
M64	6.00	2676.00	602.10	1605.60	2221.10	1605.60	2221.10	-

MINIMUM PROOF LOAD (Kn)								
Nominal Size	Pitch mm	Stress Area mm <sup>2</sup>	Class 4.6	Class 8.8	Class 10.9	Sampsonrod™	Hobrod™	Brass
M3	0.50	5.03	2.01	4.02	5.23	-	-	2.01
M4	0.70	8.78	3.51	7.02	9.13	-	-	3.51
M5	0.80	14.20	5.68	11.36	14.77	-	-	5.68
M6	1.00	20.10	8.04	16.06	20.90	16.08	20.90	8.04
M8	1.25	36.60	14.60	29.28	38.06	29.28	38.06	14.64
M10	1.50	58.00	23.20	46.40	60.30	46.40	60.30	23.20
M12	1.75	84.30	33.70	67.40	87.70	67.40	87.70	32.03
M14	2.00	115.00	46.00	92.00	119.60	92.00	119.70	-
M16	2.00	157.00	62.80	125.60	163.30	125.60	163.30	59.66
-M18	2.50	192.00	76.80	159.40	199.70	159.40	199.70	-
M20	2.50	245.00	98.00	203.30	254.80	203.30	254.80	93.10
M22	2.50	303.00	121.20	251.50	315.10	251.50	315.10	-
M24	3.00	353.00	141.20	293.00	367.10	293.00	367.10	134.14
M27	3.00	459.00	183.60	381.00	477.40	381.00	477.40	-
M30	3.50	561.00	224.40	465.60	583.40	465.60	583.40	-
M33	3.50	694.00	277.60	576.00	721.80	578.00	721.80	-
M36	4.00	817.00	326.80	678.10	849.70	678.10	849.70	-
M39	4.00	976.00	390.40	810.10	1015.00	810.10	1015.00	-
M42	4.50	1121.00	448.40	930.40	1165.80	930.40	1165.80	-
M48	5.00	1473.00	589.20	1222.60	1531.90	1222.60	1531.90	-
M52	5.00	1758.00	703.20	1459.10	1828.30	1459.10	1828.30	-
M64	6.00	2676.00	1070.40	2221.10	2738.00	2221.10	2783.00	-

## IMPERIAL MECHANICAL PROPERTIES

Minimum Stress Under Proof Load (lbf/in <sup>2</sup> )							
Nominal Size	TPI	Stress Area mm <sup>2</sup>	Grade 2	Grade 5	Grade 8	Sampsonrod™	Hobrod™
1/4"UNC	20	0.0318	55,000	85,000	120,000	85,000	120,000
5/16"UNC	18	0.0524	55,000	85,000	120,000	85,000	120,000
3/8"UNC	16	0.0775	55,000	85,000	120,000	85,000	120,000
7/16"UNC	14	0.1063	55,000	85,000	120,000	85,000	120,000
1/2"UNC	13	0.1419	55,000	85,000	120,000	85,000	120,000
9/16"UNC	12	0.1820	55,000	85,000	120,000	85,000	120,000
5/8"UNC	11	0.2260	55,000	85,000	120,000	85,000	120,000
3/4"UNC	10	0.3340	55,000	85,000	120,000	85,000	120,000
7/8"UNC	9	0.4620	33,000	85,000	120,000	85,000	120,000
1"UNC	8	0.6060	33,000	85,000	120,000	85,000	120,000
1-1/8"UNC	7	0.7630	33,000	74,000	120,000	74,000	120,000
1-1/4"UNC	7	0.9690	33,000	74,000	120,000	74,000	120,000
1-3/8"UNC	6	1.1550	33,000	74,000	120,000	74,000	120,000
*EXTRAPOLATED	6	1.4050	33,000	74,000	120,000	74,000	120,000
1-3/4"UNC*	5	1.9000	33,000	74,000	120,000	74,000	120,000
2"UNC*	4.5	2.5000	33,000	74,000	120,000	74,000	120,000
2-1/4"UNC*	4.5	3.2500	33,000	74,000	120,000	74,000	120,000

Minimum Stress Under Proof Load (lbf/in <sup>2</sup> )							
Nominal Size	TPI	Stress Area mm <sup>2</sup>	Grade 2	Grade 5	Grade 8	Sampsonrod™	Hobrod™
1/4"UNC	20	0.0318	74,000	120,000	150,000	120,000	150,000
5/16"UNC	18	0.0524	74,000	120,000	150,000	120,000	150,000
3/8"UNC	16	0.0775	74,000	120,000	150,000	120,000	150,000
7/16"UNC	14	0.1063	74,000	120,000	150,000	120,000	150,000
1/2"UNC	13	0.1419	74,000	120,000	150,000	120,000	150,000
9/16"UNC	12	0.1820	74,000	120,000	150,000	120,000	150,000
5/8"UNC	11	0.2260	74,000	120,000	150,000	120,000	150,000
3/4"UNC	10	0.3340	74,000	120,000	150,000	120,000	150,000
7/8"UNC	9	0.4620	60,000	120,000	150,000	120,000	150,000
1"UNC	8	0.6060	60,000	120,000	150,000	120,000	150,000
1-1/8"UNC	7	0.7630	60,000	105,000	150,000	105,000	150,000
1-1/4"UNC	7	0.9690	60,000	105,000	150,000	105,000	150,000
1-3/8"UNC	6	1.1550	60,000	105,000	150,000	105,000	150,000
1-1/2"UNC	6	1.4050	60,000	105,000	150,000	105,000	150,000
1-3/4"UNC*	5	1.9000	60,000	105,000	150,000	105,000	150,000
2"UNC*	4.5	2.5000	60,000	105,000	150,000	105,000	150,000
2-1/4"UNC*	4.5	3.2500	60,000	105,000	150,000	105,000	150,000

\*EXTRAPOLATED

Minimum Stress Under Proof Load (lbf/in <sup>2</sup> )							
Nominal Size	TPI	Stress Area mm <sup>2</sup>	Grade 2	Grade 5	Grade 8	Sampsonrod™	Hobrod™
1/4"UNC	20	0.0318	1,749	2,703	3,816	2,703	-
5/16"UNC	18	0.0524	2,882	4,454	6,288	4,454	-
3/8"UNC	16	0.0775	4,263	6,588	9,300	6,588	-
7/16"UNC	14	0.1063	5,847	9,063	12,756	9,036	12,756
1/2"UNC	13	0.1419	7,805	12,062	17,028	12,062	17,028
9/16"UNC	12	0.1820	10,010	15,470	21,840	15,470	-
5/8"UNC	11	0.2260	12,246	19,210	27,120	19,210	27,120
3/4"UNC	10	0.3340	18,370	28,390	40,080	39,270	40,080
7/8"UNC	9	0.4620	15,246	39,270	55,440	28,390	55,440
1"UNC	8	0.6060	19,998	51,510	72,720	51,510	72,720
1-1/8"UNC	7	0.7630	25,179	56,462	91,560	56,462	-
1-1/4"UNC	7	0.9690	31,977	71,706	116,280	71,706	-
1-3/8"UNC	6	1.1550	38,115	85,470	138,600	85,470	-
1-1/2"UNC	6	1.4050	46,365	103,970	168,600	103,970	-
1-3/4"UNC*	5	1.9000	62,700	140,600	228,000	140,600	-
2"UNC*	4.5	2.5000	82,500	185,000	300,000	185,000	-
2-1/4"UNC*	4.5	3.2500	107,250	240,500	390,000	240,500	-

Minimum Stress Under Proof Load (lbf/in <sup>2</sup> )							
Nominal Size	TPI	Stress Area mm <sup>2</sup>	Grade 2	Grade 5	Grade 8	Sampsonrod™	Hobrod™
1/4"UNC	20	0.0318	2,358	3,816	4,770	-	-
5/16"UNC	18	0.0524	3,878	6,288	7,860	-	-
3/8"UNC	16	0.0775	5,735	9,300	11,625	-	-
7/16"UNC	14	0.1063	7,866	12,735	15,945	12,756	15,945
1/2"UNC	13	0.1419	10,501	17,028	21,285	17,028	21,285
9/16"UNC	12	0.1820	13,468	21,840	27,300	21,840	27,300
5/8"UNC	11	0.2260	16,724	27,120	33,900	27,120	33,900
3/4"UNC	10	0.3340	24,716	40,080	50,100	40,080	50,100
7/8"UNC	9	0.4620	27,720	55,440	69,300	55,440	69,300
1"UNC	8	0.6060	36,360	72,720	90,900	72,720	90,900
1-1/8"UNC	7	0.7630	45,780	80,115	114,450	80,115	114,450
1-1/4"UNC	7	0.9690	58,140	101,745	145,350	101,745	145,350
1-3/8"UNC	6	1.1550	69,300	121,275	173,250	121,275	173,250
1-1/2"UNC	6	1.4050	84,300	147,525	210,750	147,525	210,750
1-3/4"UNC*	5	1.9000	114,000	199,500	285,000	199,500	258,000
2"UNC*	4.5	2.5000	150,000	262,500	375,000	262,500	375,000
2-1/4"UNC*	4.5	3.2500	195,000	341,250	487,500	341,250	478,500