sales@hexvaro.com
WhatsApp +86 153 3301 1614
www.hexvaro.com

DIN 976 Threaded Rod Weight & Load Chart

DIN 976-1 (DIN 975) threaded rod chart: coarse and fine pitch, stress area, weight per metre and minimum tensile load in class 4.8, 8.8 and 10.9 from M6 to M48.

Metric threaded rod sizes and weights

Size	Coarse pitch (mm)	Common fine pitch (mm)	Stress area As (mm²)	Weight (kg/m)
M6	1.0	—	20.1	0.177
M8	1.25	1.0	36.6	0.319
M10	1.5	1.25	58.0	0.500
M12	1.75	1.25 / 1.5	84.3	0.725
M14	2.0	1.5	115	0.970
M16	2.0	1.5	157	1.33
M18	2.5	1.5	192	1.65
M20	2.5	1.5	245	2.08
M22	2.5	1.5	303	2.54
M24	3.0	2.0	353	3.00
M27	3.0	2.0	459	3.85
M30	3.5	2.0	561	4.75
M36	4.0	3.0	817	6.90
M42	4.5	3.0	1,120	9.40
M48	5.0	3.0	1,470	12.4

Threaded rod weight chart by bar length (kg per bar)

Size	1 m bar	2 m bar	3 m bar
M6	0.177	0.35	0.53
M8	0.319	0.64	0.96
M10	0.500	1.00	1.50
M12	0.725	1.45	2.17
M14	0.970	1.94	2.91
M16	1.33	2.66	3.99
M18	1.65	3.30	4.95
M20	2.08	4.16	6.24
M22	2.54	5.08	7.62
M24	3.00	6.00	9.00
M27	3.85	7.70	11.55
M30	4.75	9.50	14.25
M36	6.90	13.80	20.70
M42	9.40	18.80	28.20
M48	12.4	24.80	37.20

Minimum tensile load by property class (kN)

Size	Class 4.8	Class 8.8	Class 10.9
M6	8.4	16.1	20.9
M8	15.4	29.3	38.1
M10	24.4	46.4	60.3
M12	35.4	67.4	87.7
M16	65.9	126	163
M20	103	203	255
M24	148	293	367
M30	236	466	583
M36	343	678	850

Minimum tensile loads are breaking loads, not working loads. Apply the safety factors in your design code.

Reference values for buyers. The governing standard edition and your drawing control the order.

Full chart: https://www.hexvaro.com/resources/din-976-threaded-rod-sizes/

Request a quote: https://www.hexvaro.com/request-a-quote/ · MOQ 500 pcs per specification · We reply within 2 working hours.