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M10 · English · threaded-rod-weight-chart-m10-en

Threaded Rod & Stud Bolt Weight Chart — M10

M10 · 14 lengths · kg per piece · kg/m · carbon steel 7.85 g/cm³ · rolled thread ×0.97

M10

0.6 kg/m · As 58 mm²

Length L (mm)	Weight per piece kg
M10×100	0.06
M10×150	0.09
M10×200	0.12
M10×250	0.15
M10×300	0.18
M10×400	0.24
M10×500	0.3
M10×600	0.36
M10×800	0.48
M10×1000	0.6
M10×1500	0.9
M10×2000	1.2
M10×2500	1.5
M10×3000	1.8

All values are computed as geometric volume × density (carbon steel 7.85 g/cm³, base metal, coating excluded) — no copyrighted standard tables are reproduced. Fully threaded rolled rod = plain cylinder π/4·d²·L × 0.97 (thread-rolling allowance, identical formula and parameters as the online weight calculator). The plain full-diameter figure is 0.617 kg/m; this chart uses 97% of it.

Pitch and minor diameter are public ISO metric basic-profile geometry; As is the ISO 898-1 tensile stress area used for tensile capacity calculations, not the physical cross-section.

Basis of Calculation & Disclosed Assumptions

Boundary: theoretical geometric estimates for quotation, freight and lifting budgets. Actual piece weight varies with thread tolerance and coating (hot-dip galvanizing ≈ +4.5%). Use measured values for trade settlement. Double-end studs are cut-to-length products — at the same diameter and length the piece weight matches threaded rod.

References

- GB/T 15389-1994 — Threaded rods (CN national standard, official full text) — https://openstd.samr.gov.cn/bzgk/gb/std?std_no=GB%2FT%2015389-1994
- GB/T 192-2003 — General purpose metric screw threads: basic profile (CN, official full text; ISO 68-1 equivalent) — https://openstd.samr.gov.cn/bzgk/gb/std?std_no=GB%2FT%20192-2003
- Metric thread basic profile (ISO 68-1)
- Dimensions cross-checked against industry fastener data libraries; densities are common industry values

Disclaimer: This chart is an engineering estimation for selection, quotation and freight estimation only. It does not constitute design or acceptance criteria.

Material Density Conversion

Values above are carbon steel (7.85 g/cm³); for other materials multiply by the density factor.

Material	Density (g/cm³) g/cm³	Factor
Carbon / Alloy Steel	7.85	×1.000
Stainless 304	7.93	×1.010
Stainless 316	7.98	×1.017
Brass	8.5	×1.083