UNC Threaded Rod

Steel - Grade 2

UNC threaded rod grade 2 is a low-carbon steel fastener with unified coarse (UNC) threads that runs continuously along its full length. It's one of the most common and economical types of threaded rods used in general-purpose construction and industrial applications.

Material:

Low-carbon steel

Surface Finish:

Zinc plated

Thread Type:

UNC (coarse thread, per ASME B1.1)

Grade:

2

Common Uses:

- · Construction (light framing, anchoring)
- · Electrical and plumbing supports
- · DIY furniture, shelving
- · Light-duty bracketing
- · Maintenance and repairs

Features:

Coarse Thread (UNC): Better grip in soft materials (like wood or plastic), and more resistant to stripping during installation. Low Cost: Inexpensive compared to higher grades (like Grade 5 or Grade 8). Easy to Cut and Install: Can be easily cut to length in the field and doesn't require specialized tools.

Zinc-plated or Galvanized Options: For improved corrosion resistance in dry or semi-outdoor environments.



Specifications:

The specifications of UNC threaded rod are as indicated in Table 1.

Tabel 1 - Specifications of UNC Threaded Rods

Catalog Number	Size	Threads per Inch	Tensile Stress Area	Ultimate Tensile Strength	Ultimate Tensile Strength	Weight per Meter
	In		ln²	Lbf	Kn	Kgs
TR14	1/4"-20	20	0.0318	2,353	10.47	0.185
TR516	5/16"-18	18	0.0524	3,878	17.25	0.299
TR38	3/8"-16	16	0.0775	5,735	25.51	0.435
TR12	1/2"-13	13	0.142	10,508	46.76	0.794
TR58	5/8"-11	11	0.226	16,724	74.38	1.263
TR34	3/4"-10	10	0.334	24,716	109.93	1.85
TR78	7/8"-9	9	0.462	34,188	152.12	2.54
TR1	1"-8	8	0.606	44,844	199.52	3.33

Notes:

Material Assumption: Grade 2 carbon steel with an Ultimate Tensile Strength (UTS) of 74,000 psi.

Tensile Stress Area: Based on standard UNC thread geometry per ASME B1.1. Values are ideal maximums – actual usage should apply a safety factor (typically 2.5–3.0).

