

US prevailing-torque nut with polyamide insert

A hexagonal body with a collar and polyamide insert. UNC and UNF series are covered in one sheet, with nominal sizes in inches and external dimensions in millimetres.

Dimensional range

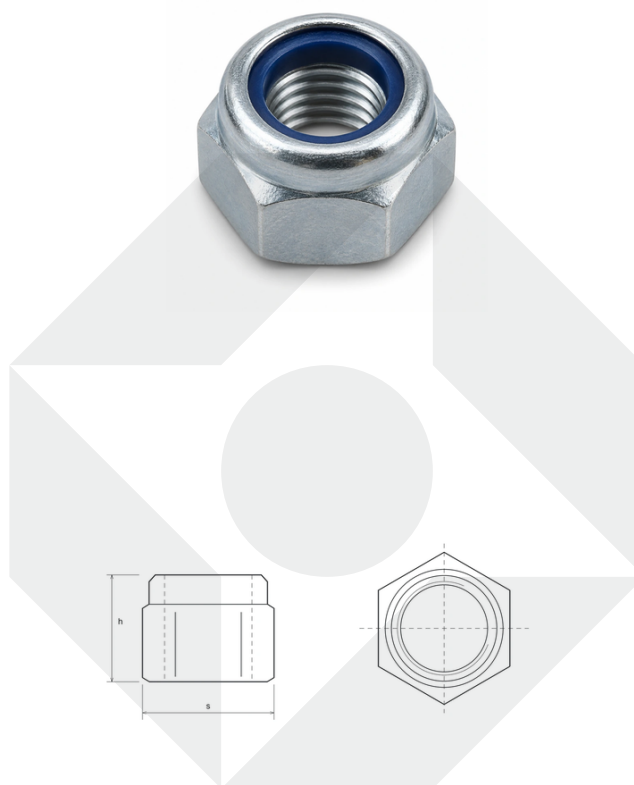
1/4-1 in · UNC / UNF

Thread

Unified UNC / UNF · TPI

Configuration

US prevailing-torque nut with polyamide insert



Technical drawing

d

nominal diameter in inches

h

overall height in mm

s

wrench size in mm. UNC: coarse thread; UNF: fine thread.

Variants and dimensional data

The table identifies the reference technical selection. The supply configuration is reviewed against the enquiry.

Nominal diameter in inches; TPI = threads per inch. Dimensions h and s in millimetres.

Diameter in	Series	Threads/inch	h min. mm	h max. mm	s max. mm
1/4	UNC	20	7.5	8.4	11.2

Diameter in	Series	Threads/inch	h min. mm	h max. mm	s max. mm
5/16	UNC	18	8.3	9.2	12.8
3/8	UNC	16	11.1	11.9	14.4
7/16	UNC	14	11.1	11.9	16
1/2	UNC	13	14.7	15.5	19.1
5/8	UNC	11	18.6	19.5	24
3/4	UNC	10	21.8	22.6	27.1
7/8	UNC	9	24.6	25.4	32
1	UNC	8	25.8	27.4	36.6
1/4	UNF	28	7.5	8.4	11.2
5/16	UNF	24	8.3	9.2	12.8
3/8	UNF	24	11.1	11.9	14.4
7/16	UNF	20	11.1	11.9	16
1/2	UNF	20	14.7	15.5	19.1
5/8	UNF	18	18.6	19.5	24
3/4	UNF	16	21.8	22.6	27.1
7/8	UNF	14	24.6	25.4	32
1	UNF	12	25.8	27.4	36.6

Always specify diameter, series and threads per inch. UNC and UNF are not interchangeable. Temperature, prevailing torque and reuse depend on the verified configuration; do not assign a metric property class or US grade by automatic equivalence.

Table dimensions refer to the stated execution. DIN/UNI, polymer and special variants require verification of their own dimensions; they do not automatically inherit reference geometry, weight or performance.

Materials, classes, finishes and treatments

Executions are distinguished by reference, material, class and finish. DIN, ISO and UNI references do not imply dimensional equivalence or availability of every size in each material. Supply and batch documents require quotation confirmation.

Execution reference	Material	Class / hardness	Documented finishes
Nyloc alto / high	Steel	To be specified	Plain; Zinc plated
Nyloc basso / low	Steel	To be specified	Zinc plated

“To be specified” is a requirement not established by this selection; it does not imply class 70/80, HV hardness or an automatic finish. Steel property classes do not apply to nylon/polyamide; PA6 and PA66 are distinguished only where stated. For nuts with non-metallic inserts, the material shown is the body material.

Documentation

Document	Status
Declaration of conformity	Subject to order agreement
Material certificate	Subject to order agreement
EN 10204 2.2 test report	Subject to order agreement
EN 10204 3.1 inspection certificate	Subject to order agreement
Dimensional inspection report	Subject to order agreement
Coating report	Subject to order agreement
Other documentation	Subject to order agreement

Batch documents are not automatically included: specify your requirements in the RFQ.

ISO, DIN and UNI: key differences

ASME B18.16.6

Geometry of the documented technical selection. Check the supplied product drawing before substitution; universal equivalence with other designs is not claimed.

