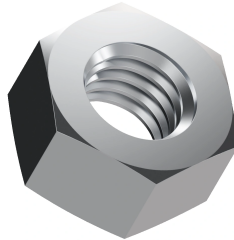


DIN 934

Hex Nut



Standard	DIN 934		
Product Type	Hex Nut		
Material	Stainless Steel, Carbon Steel		
Property Class	A2-70, A4-80 (ISO 3506-2) · 6, 8, 10 (ISO 898-2)		
Surface Finish	Passivated, Plain, Zinc Plated, Hot Dip Galvanized, Dacromet, Blackened, Phosphate		
Size Range	M1.6 - M36	Thread	ISO metric coarse pitch

BASIS OF SPECIFICATION

WHICH STANDARD GOVERNS WHAT

Dimensions to	DIN 934:1987-10
Carbon steel / Alloy steel mechanical properties to	ISO 898-2:2022
Stainless steel mechanical properties to	ISO 3506-2:2020
Product grade	A / B

PROPERTY CLASSES

REQUIRED VALUES PER ISO 3506-2

Class	Governing property	Source
A2-70	Proof load - no tensile strength specified for nuts	ISO 3506-2
A4-80	Proof load - no tensile strength specified for nuts	ISO 3506-2

PROPERTY CLASSES

REQUIRED VALUES PER ISO 898-2

Class	Governing property	Source
6	Proof load - no tensile strength specified for nuts	ISO 898-2
8	Proof load - no tensile strength specified for nuts	ISO 898-2
10	Proof load - no tensile strength specified for nuts	ISO 898-2

DIMENSIONAL DATA - SIZES WE SUPPLY

ALL DIMENSIONS PER THE STANDARD

d	P	s (max)	e (min)	m	Approx. Mass	d	P	s (max)	e (min)	m	Approx. Mass
Diameter - mm	Thread Pitch - mm	Width Across Flats - mm	Width Across Corners - mm	Nut Height - mm		Diameter - mm	Thread Pitch - mm	Width Across Flats - mm	Width Across Corners - mm	Nut Height - mm	
M3	0.5	5.5	6.01	2.4	0.384	M12	1.75	19	21.1	10	17.3
M4	0.7	7	7.66	3.2	0.81	M16	2	24	26.75	13	33.3
M5	0.8	8	8.79	4	1.23	M20	2.5	30	32.95	16	64.4
M6	1	10	11.05	5	2.5	M24	3	36	39.55	19	110
M8	1.25	13	14.38	6.5	5.2	M30	3.5	46	50.85	24	223
M10	1.5	17	18.9	8	11.6	M36	4	55	60.79	29	393

FURTHER SIZES IN THIS STANDARD

ALL DIMENSIONS PER THE STANDARD

Not held in stock. Available to order; minimum order quantity applies.

d	P	s (max)	e (min)	m	Approx. Mass	d	P	s (max)	e (min)	m	Approx. Mass
Diameter - mm	Thread Pitch - mm	Width Across Flats - mm	Width Across Corners - mm	Nut Height - mm		Diameter - mm	Thread Pitch - mm	Width Across Flats - mm	Width Across Corners - mm	Nut Height - mm	
M1.6	0.35	3.2	3.41	1.3	0.076	M18	2.5	27	29.56	15	49.4
M2	0.4	4	4.32	1.6	0.142	M22	2.5	32	35.03	18	79
M2.5	0.45	5	5.45	2	0.28	M27	3	41	45.2	22	165
M14	2	22	24.49	11	25	M33	3.5	50	55.37	26	288

MARKING
Steel — Required

What	The nut property class symbol from DIN 267 Part 4 (classes 6, 8 and 10 for this product standard, and class 5 for M2,5 and smaller). The symbol itself is defined in DIN 267 Part 4, which we do not hold.
Where	Not fixed by the product standard
Sizes	All sizes
Clause	DIN 934:1987-10, Clause 3, Mechanical properties row, which names DIN 267 Part 4 as the standard

Stainless steel — Required

What	Stainless steel grade, the optional letter L for low-carbon grades (C 0,030 % max.), a hyphen and the property class symbol of Table 10, for example A4-80, together with the manufacturer identification mark. For grades A2 and A4 only, the alternative groove marking of Figure 7 may be used; where it carries no property class, property class 50 applies
Where	Preferably on the top of the nut, which is the face opposite the bearing face, indented or embossed; or indented on the side of the nut. An embossed mark on the top is not counted in the nut height. On nuts with flange, on the flange when the manufacturing process does not allow marking on the top
Sizes	D >= 5 mm
Clause	ISO 3506-2:2020, 11.1 Nut marking, 11.2 Manufacturer's identification mark and 11.3.1 Hexagon nuts

"All hexagon nuts of nominal thread diameter D >= 5 mm shall be marked for all stainless steel grades and all property classes, with the stainless steel grade in accordance with Clause 7, with the property class symbol in accordance with Table 10 or 11, and with the manufacturer's identification mark in accordance with 11.2."

Clause 3 of DIN 934:1987-10 sets no marking symbol of its own. Steel nut classes follow DIN 267 Part 4 and stainless follows DIN 267 Part 11, so the marking obligation comes from those standards.

Steel classes are 6 for M2,5 and smaller, 6, 8 or 10 from M3 to M39, and by agreement above M39. Stainless is A2-70 or A4-70 up to and including M39, by agreement above.

Product grade is A up to and including M16 and B for larger sizes, to ISO 4759 Part 1.

A coating caution belongs on the certificate: footnote 1 warns that where a protective coating is applied, a class 6H nut may need a larger fundamental deviation than the H position, and that a larger fundamental deviation can impair the stripping resistance of the bolt and nut assembly.

The dimension table adds a deviation from ISO 4759 Part 1: tolerance zone h12 instead of h13 for widths across flats up to and including 4 mm, and h14 instead of h13 permitted for hot dip galvanized nuts from M5 to M16.

Confirm the ordered property class before production.

INSPECTION DOCUMENTS WE CAN ISSUE

EN 10204 3.1 material certificate	Can be included when agreed in the order.
Dimensional inspection report	Can be provided for the agreed inspection scope.
Certificate of conformity	Can be issued against the confirmed order requirements.
Mechanical test report	Available when the required tests are agreed before production.
Chemical analysis report	Available when the material verification scope is agreed.
Coating inspection report	Can record the coating checks agreed for the order.

REFERENCES & NOTES

Note: DIN 934 is a withdrawn legacy standard; the current standard for this product is ISO 4032. This sheet is built to DIN 934. Dimensions can differ between the two - check the recorded correspondence on our website before substituting one for the other.