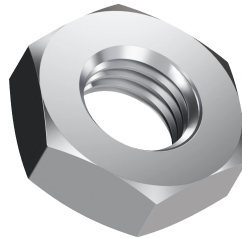


ISO 8675

Hexagon thin nuts (style 0), fine pitch



Standard	ISO 8675		
Product Type	This document specifies the characteristics of hexagon thin nuts (style 0), in steel and stainless steel, with metric fine pitch thread 8 mm to 64 mm, and with product grades A and B. Thin nuts used as jam nuts are to be assembled together with a regular or high nut. WARNING - Thin nuts (style 0) have a reduced loadability compared to regular nuts or high nuts, and are not designed to provide resistance to thread stripping (see ISO 898 - 2). If in certain cases other specifications are requested, stainless steel grades and property classes can be selected from ISO 3506 - 2.		
Material	Stainless Steel, Carbon Steel		
Property Class	A2-035, A4-040 (ISO 3506-2) · 04, 05 (ISO 898-2)		
Surface Finish	Passivated, Plain, Zinc Plated, Hot Dip Galvanized, Dacromet, Blackened, Phosphate		
Size Range	M8 - M64	Thread	ISO metric fine pitch

BASIS OF SPECIFICATION		WHICH STANDARD GOVERNS WHAT
Dimensions to	ISO 8675:2023	
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	
A2-035	Proof load - no tensile strength specified for nuts	ISO 3506-2	
A4-040	Proof load - no tensile strength specified for nuts	ISO 3506-2	

PROPERTY CLASSES			REQUIRED VALUES PER ISO 898-2
Class	Governing property	Source	
04	Proof load - no tensile strength specified for nuts	ISO 898-2	
05	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)	s (min)	e (min)	m	m (min)	d	P	s (max)	s (min)	e (min)	m	m (min)
Diameter - mm	Thread Pitch - mm	Width Across Flats - mm	Width Across Flats - mm	Width Across Corners - mm	Nut Height - mm	Nut Height - mm	Diameter - mm	Thread Pitch - mm	Width Across Flats - mm	Width Across Flats - mm	Width Across Corners - mm	Nut Height - mm	Nut Height - mm
M8	1	13	12.73	14.38	4	3.7	M16	1.5	24	23.67	26.75	8	7.42
M10	1.25	16	15.73	17.77	5	4.7	M20	2	30	29.16	32.95	10	9.1
M12	1.5	18	17.73	20.03	6	5.7	M24	2	36	35	39.55	12	10.9

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)	s (min)	e (min)	m	m (min)	d	P	s (max)	s (min)	e (min)	m	m (min)
Diameter - mm	Thread Pitch - mm	Width Across Flats - mm	Width Across Flats - mm	Width Across Corners - mm	Nut Height - mm	Nut Height - mm	Diameter - mm	Thread Pitch - mm	Width Across Flats - mm	Width Across Flats - mm	Width Across Corners - mm	Nut Height - mm	Nut Height - mm
M14	1.5	21	20.67	23.36	7	6.42	M42	3	65	63.1	71.3	21	19.7
M18	2	27	26.16	29.56	9	8.42	M45	3	70	68.1	76.95	22.5	21.2
M22	2	34	33	37.29	11	9.9	M48	3	75	73.1	82.6	24	22.7
M27	2	41	40	45.2	13.5	12.4	M52	3	80	78.1	88.25	26	24.7
M30	2	46	45	50.85	15	13.9	M56	4	85	82.8	93.56	28	26.7
M33	2	50	49	55.37	16.5	15.4	M60	4	90	87.8	99.21	30	28.7
M36	3	55	53.8	60.79	18	16.9	M64	4	95	92.8	104.86	32	30.4
M39	3	60	58.8	66.44	19.5	18.2							

MARKING
Steel — Required

What	Manufacturer identification mark and the property class symbol of Table 10, which for thin nuts is only 04 or 05. The clock-face alternative of Table 9 shall not be used for thin nuts
Where	Indented on a side face or on the bearing face, or embossed on the chamfer
Sizes	All sizes
Clause	ISO 898-2:2012, 10.3.3 (thin nuts) with 10.4.1

Stainless steel — Required

What	Stainless steel grade, the optional letter L, a hyphen and the property class symbol of Table 11, which carries a preceding 0: 022, 025, 030, 035, 040, 050 or 055 for classes 45 to 110, for example A2-035 for class 70, together with the manufacturer identification mark. The Table 11 symbol applies to every size in a reduced-loadability product standard, even where a size would meet full loadability. For A2 and A4 only, the groove marking of Figure 7 may be used; where it carries no property class, property class 025 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
Sizes	D ≥ 5 mm
Clause	ISO 3506-2:2020, 11.1.3 Marking of property class for nuts with reduced loadability (thin nuts) and 11.3.1 Hexagon nuts

"The property class marking symbol for nuts with reduced loadability (thin nuts) shall be as specified in Table 11, with the preceding digit "0".

Thin nuts are the opposite of standard and style 2 nuts here: the clock-face alternative shall not be used.

Fine pitch changes the ordering designation, which must carry the pitch: M12x1,5.

Clause 6.1 of ISO 8675:2023 sets no marking of its own: steel nuts are marked as specified in ISO 898-2 and stainless steel nuts as specified in ISO 3506-2, both cited without a year. Clause 6.2 requires the package label to carry at least: the reference ISO 8675, the thread size and fine pitch DxP, the property class symbol for steel nuts or the grade and property class symbol for stainless steel nuts, the type of surface condition, the manufacturer's and/or distributor's identification and/or name, the manufacturing lot number to ISO 1891-4, and the quantity of pieces.

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: Dimensional values follow the selected execution standard. Material properties and batch test results are included only when declared or supported by the applicable certificate or test report.

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