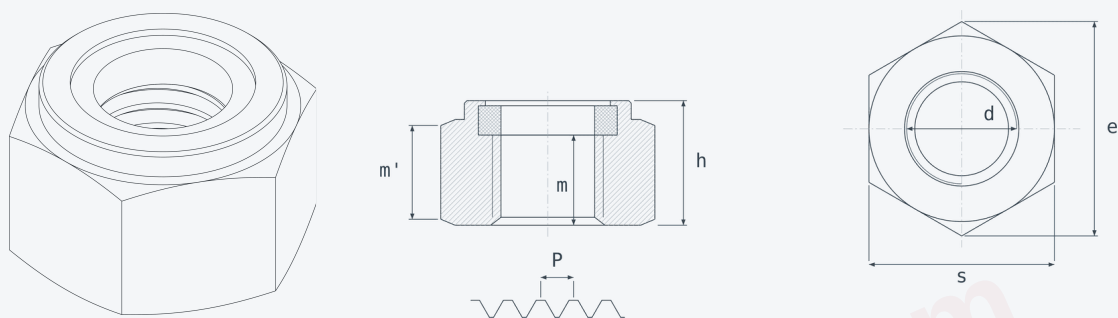


ISO 7040 High Nylon Insert Lock Nut



STANDARD

ISO 7040 Prevailing torque type hexagon nuts with non-metallic insert, style 1

THREAD

ISO metric coarse pitch

SIZES

M3 - M36

MATERIAL

Stainless Steel, Carbon Steel

PROPERTY CLASS

A2-70, A4-80 (ISO 3506-2) · 8, 10 (ISO 898-2)

SURFACE

Passivated, Plain, Zinc Plated, Hot Dip Galvanized, Dacromet, Blackened, Phosphate

Dimensions follow the standard named on this sheet. Material properties and batch test results come with the order's certificate or test report.

BASIS OF SPECIFICATION

DIMENSIONS

ISO 7040:1997

CARBON STEEL / ALLOY STEEL

ISO 898-2:2022

STAINLESS STEEL

ISO 3506-2:2020

PRODUCT GRADE

A / B

DIMENSIONS

mm · ISO 7040

d	P	da max	da min	dw min	e min	h max	h min	m min	mw min	s max	s min
M3	0.5	3.45	3	4.57	6.01	4.5	4.02	2.15	1.72	5.5	5.32
M4	0.7	4.6	4	5.88	7.66	6	5.52	2.9	2.32	7	6.78
M5	0.8	5.75	5	6.88	8.79	6.8	6.22	4.4	3.52	8	7.78
M6	1	6.75	6	8.88	11.05	8	7.42	4.9	3.92	10	9.78
M8	1.25	8.75	8	11.63	14.38	9.5	8.92	6.44	5.15	13	12.73
M10	1.5	10.8	10	14.63	17.77	11.9	11.2	8.04	6.43	16	15.73
M12	1.75	13	12	16.63	20.03	14.9	14.2	10.37	8.3	18	17.73
M14	2	15.1	14	19.64	23.36	17	15.9	12.1	9.68	21	20.67
M16	2	17.3	16	22.49	26.75	19.1	17.8	14.1	11.28	24	23.67
M20	2.5	21.6	20	27.7	32.95	22.8	20.7	16.9	13.52	30	29.16
M24	3	25.9	24	33.25	39.55	27.1	25	20.2	16.16	36	35
M30	3.5	32.4	30	42.75	50.85	32.6	30.1	24.3	19.44	46	45
M36	4	38.9	36	51.11	60.79	38.9	36.4	29.4	23.52	55	53.8

P thread pitch da underhead diameter dw bearing diameter e width across corners h overall height m thread height mw wrenching height s width across flats

MECHANICAL PROPERTIES

ISO 3506-2

Class Governing property

A2-70 Proof load - no tensile strength specified for nuts

A4-80 Proof load - no tensile strength specified for nuts

MECHANICAL PROPERTIES

ISO 898-2

Class Governing property

8 Proof load - no tensile strength specified for nuts

10 Proof load - no tensile strength specified for nuts

MARKING

Steel (required): Manufacturer identification mark and the property class symbol of Table 9. Small nuts, or nuts whose shape leaves no room, may use the clock-face marking of Table 9 instead. Position: Indented on a side face or on the bearing face, or embossed on the chamfer; an embossed mark shall not stand above the bearing face. Sizes: All sizes. Clause: ISO 898-2:2012, 10.3.1, 10.3.2 and 10.4.1. "The marking symbol in accordance with 10.3.2 to 10.5 shall be embossed or indented, during the manufacturing process, on all nuts manufactured to the requirements of this part of ISO 898."

Prevailing torque nuts must be marked. The product standard has no marking clause and points to ISO 2320, which has no marking clause either; ISO 2320:1997 Clause 4 states that the property classes are the same as ISO 898-2 and ISO 898-6 specify for hexagon nuts, so ISO 898-2 Clause 10 governs.

DOCUMENTS

EN 10204 3.1 material certificate, dimensional inspection report and mechanical test report, on request.

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