

DIN 975

Threaded Rod



Standard	DIN 975		
Product Type	Threaded Rod		
Material	Carbon Steel, Stainless Steel		
Property Class	4.8, 8.8 (ISO 898-1) · A2-70, A4-80 (ISO 3506-1)		
Surface Finish	Zinc Plated, Hot Dip Galvanized, Plain, Passivated		
Size Range	M2 - M52	Length Range	50-3000 mm
Thread	ISO metric coarse pitch, with fine pitch options		

BASIS OF SPECIFICATION

WHICH STANDARD GOVERNS WHAT

Carbon steel / Alloy steel mechanical properties to	ISO 898-1:2013
Stainless steel mechanical properties to	ISO 3506-1:2020
Product grade	A
Dimensions edition	to be agreed
Length tolerance	to be agreed
Thread length	to be agreed
Minimum usable thread length	to be agreed

MECHANICAL PROPERTIES

REQUIRED VALUES PER ISO 898-1

Class	Rm min.	Yield requirement	Elongation requirement	Hardness	Source
4.8	420 MPa	Rpf min. 340 MPa (not a test value)	Af min. 0.24	130 - 220 HV	ISO 898-1
8.8	800 MPa	Rp0.2 min. 640 MPa	A min. 12 %	250 - 320 HV	ISO 898-1 (d ≤ M16)
8.8	830 MPa	Rp0.2 min. 660 MPa	A min. 12 %	255 - 335 HV	ISO 898-1 (d > M16)

MECHANICAL PROPERTIES

REQUIRED VALUES PER ISO 3506-1

Class	Rm min.	Yield requirement	Elongation requirement	Hardness	Source
A2-70	700 MPa	Rp0.2 min. 450 MPa	0,4d mm	-	ISO 3506-1
A4-80	800 MPa	Rp0.2 min. 600 MPa	0,3d mm	-	ISO 3506-1

DIMENSIONAL DATA - SIZES WE SUPPLY

ALL DIMENSIONS PER THE STANDARD

d Diameter - mm	Thread Pitch - mm	d Diameter - mm	Thread Pitch - mm
M6	1	M20	2.5
M8	1.25	M24	3
M10	1.5	M30	3.5
M12	1.75	M36	4
M16	2		

FURTHER SIZES IN THIS STANDARD

ALL DIMENSIONS PER THE STANDARD

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

d Diameter - mm	Thread Pitch - mm	d Diameter - mm	Thread Pitch - mm
M2	0.4	M22	2.5
M2.5	0.45	M27	3
M3	0.5	M33	3.5
M3.5	0.6	M39	4
M4	0.7	M42	4.5
M5	0.8	M45	4.5
M14	2	M48	5
M18	2.5	M52	5

MARKING

Carbon steel / Alloy steel Head marking to ISO 898-1:2013

Stainless steel Head marking to ISO 3506-1:2020

Marking requirements are set by the material standard named above, not by the product standard. 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 975 is a withdrawn legacy standard; the current standard for this product is DIN 976-1. This sheet is built to DIN 975. Dimensions can differ between the two - check the recorded correspondence on our website before substituting one for the other.