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Fasteners
Technical delivery conditions
Property classes for carbon steel and alloy steel bolts and screws
Conversion of property classes

DIN 267 Part 3

Mechanische Verbindungselemente; technische Lieferbedingungen; Festigkeitsklassen für Schrauben aus unlegierten oder legierten Stählen; Umstellung der Festigkeitsklassen

This standard, together with DIN ISO 898 Part 1, April 1979 edition, supersedes the October 1967 edition, which was withdrawn in 1979.

In keeping with current practice in standards published by the International Organization for Standardization (ISO), a comma has been used throughout as the decimal marker.

This standard is concerned with the conversion of the previous property classes as defined in DIN 267 Part 3 (October 1967 edition) into the new property classes as defined in DIN ISO 898 Part 1 (April 1979 edition).

The designation system for property classes for bolts, screws and studs, and its meaning, the associated mechanical properties and test methods have not changed fundamentally and so interchangeability problems are not to be expected. Thus no amendment to the standard number is necessary in current documents. DIN 267 Part 3, October 1967 edition, shall no longer be used for new designs. DIN ISO 898 Part 1 automatically applies for orders or supplies in accordance with DIN 267 Part 3, unless otherwise agreed.

The table below compares the property classes from DIN 267 Part 3 (October 1967 edition) with those from DIN ISO 898 Part 1, indicating the assigned minimum tensile strength and yield stress values. The table also shows the property classes as defined in previous editions of DIN 267 (December 1960 edition).

Property class	DIN 267 Part 3	3.6	4.6	4.8	5.6	5.8	6.6	6.8	6.9	8.8	–	10.9	12.9	14.9
	DIN ISO 898 Part 1	3.6	4.6	4.8	5.6	5.8	–	6.8	–	8.8	9.8	10.9	12.9	–
Minimum tensile strength, in N/mm²	DIN 267 Part 3	340	400	400	500	500	600	600	600	800	–	1000	1200	1400
	DIN ISO 898 Part 1	330	400	420	500	520	–	600	–	800[1]	900	1040	1220	–
Minimum yield stress, or stress at permanent set limit, in N/mm²	DIN 267 Part 3	200	240	320	300	400	360	480	540	640	–	900	1080	1260
	DIN ISO 898 Part 1	190	240	320	300	420	–	480	–	640[2]	720	940	1100	–
Property classes from DIN 267, December 1960 edition		4A	4D	4S	5D	5S	6D	6S	6G	8G	–	10K	12K	–

1) For sizes above M 16: 830.
2) For sizes above M 16: 660.

The previous property classes 6.6, 6.9 and 14.9 are not specified in DIN ISO 898 Part 1, since they are no longer required. Property class 9.8, the application of which in Germany is not, however, foreseen in the near future, has been adopted for the first time.

In future, only DIN ISO 898 Part 1 is also to be applied to non-standardized bolts and screws, where property classes are required for these.

Current documents shall be converted to DIN ISO 898 Part 1.

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Standards referred to

DIN ISO 898 Part 1	Mechanical properties of fasteners; bolts, screws and studs
DIN 267	Bolts and screws, nuts and similar threaded components; technical delivery conditions (December 1960 edition, withdrawn in 1968)
DIN 267 Part 3	Bolts and screws, nuts and similar threaded components; technical delivery conditions; property classes and test methods for carbon steel and low alloy steel bolts and screws (October 1967 edition, withdrawn in 1979)

Previous editions

DIN 266: 03.31; DIN 589: 07.31, 01.34; DIN Kr 550: 03.36; DIN 267 Part 1 and Part 2: 04.37; DIN 267: 06.40, 01.43, 01.54, 12.60; DIN 267 Part 3: 10.67

Amendments

The following amendments have been made in comparison with the October 1967 edition, which was withdrawn in 1979:

a) The content of the standard has been superseded by DIN ISO 898 Part 1.

b) A cross-reference and comparison chart for property classes of screws and bolts has been included.

International Patent Classification

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