



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 3098.26-2021

**Mechanical properties of fasteners - Flat washers
(English Translation)**

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for Standardization Work Part 1: Structure and Drafting Rules of Standardization Documents" drafted:

This document is part 26 of GB/T 3098 "Mechanical Properties of Fasteners": GB/T 3098 has released the following parts:

- GB/T 3098.1 Mechanical properties of fasteners Bolts, screws and studs;
- GB/T 3098.2 Mechanical properties of fasteners nuts;
- GB/T 3098.3 Mechanical properties of fasteners set screws;

- GB/T 3098.5 Mechanical properties of fasteners self-tapping screws;
- GB/T 3098.6 Mechanical properties of fasteners Stainless steel bolts, screws and studs;
- GB/T 3098.7 Mechanical properties of fasteners self-extrusion screws;
- GB/T 3098.8 Mechanical properties of fasteners - bolted parts used at:200°C ~ 700°C;
- GB/T 3098.9 Mechanical properties of fasteners - effective torque profile steel lock nut;
- GB/T 3098.10 Mechanical properties of fasteners Bolts, screws, studs and nuts made of non-ferrous metals;
- GB/T 3098.11 Mechanical properties of fasteners Self-drilling self-tapping screws;
- GB/T 3098.12 Mechanical properties of fasteners - nut conical guaranteed load test;
- GB/T 3098.13 Mechanical properties of fasteners Torque test and breaking torque of bolts and screws Nominal diameter 1~10mm;
- GB/T 3098.14 Mechanical properties of fasteners nut reaming test;
- GB/T 3098.15 Stainless steel nuts for mechanical properties of fasteners;
- GB/T 3098.16 Mechanical properties of fasteners Stainless steel set screws;
- GB/T 3098.17 Preload test parallel bearing surface method for hydrogen embrittlement test of mechanical properties of fasteners;
- GB/T 3098.18 Blind rivet test method for mechanical properties of fasteners;
- GB/T 3098.19 Blind rivets for mechanical properties of fasteners;
- GB/T 3098.20 Mechanical properties of fasteners - Guaranteed torque of wing nuts;
- GB/T 3098.21 Stainless steel self-tapping screws for mechanical properties of fasteners;
- GB/T 3098.22 Mechanical properties of fasteners Fine-grained non-quenched and tempered steel bolts, screws and studs;
- GB/T 3098.23 Mechanical properties of fasteners M42~M72 bolts, screws and studs;
- GB/T 3098.24 Fasteners Mechanical properties of stainless steel and nickel alloy bolts, screws, studs and nuts for high temperature;
- GB/T 3098.25 Fasteners Mechanical Properties Guide for Selection of Stainless Steel and Nickel Alloy Fasteners;
- GB/T 3098.26 Flat washers for mechanical properties of fasteners:

This document is revised and adopted ISO 898-3:2018 "Mechanical properties of fasteners carbon steel and alloy steel fasteners - Part 3: Specified properties, etc:

Grade Flat Washers":

The technical differences between this document and ISO 898-3:2018 and their reasons are as follows:

- Replaced ISO 898-1 with the normatively quoted GB/T 3098.1 to adapt to the technical conditions of our country (see Chapter 1 and Table 1);
- Replaced ISO 898-2 with the normatively cited GB/T 3098.2 to adapt to the technical conditions of our country (see Chapter 1 and Table 1);
- Replaced ISO 10673 with the normatively cited GB/T 97.4 to adapt to my country's technical conditions (see Table 1);
- Increase the hardness level of 140HV (see Chapters 5 to 8) to expand the use of flat washers;
- Replaced ISO 10669 with the normatively cited GB/T 97.5 to adapt to my country's technical conditions (see Chapter 6);
- Replaced ISO 10684 with the normatively cited GB/T 5267.3 to adapt to my country's technical conditions (see Chapter 6);
- Replaced ISO 10644 with the normatively cited GB/T 9074.1 to adapt to my country's technical conditions (see Table 1, Chapter 6);
- Replace ISO 6508-1 with the normatively quoted GB/T 230.1 to adapt to the technical conditions of our country (see 8.1:2:1);
- Replaced ISO 6507-1 with the normatively cited GB/T 4340.1 to adapt to the technical conditions of our country (see 8.1:2:1 and 8.1:3:1);
- In the hardness test method, the reading requirement of "interval about 120°" is added (see 8.1:2:4) to ensure the uniformity of readings;
- Replaced ISO 1891-4 with the normatively cited GB/T 3099.4 to adapt to the technical conditions of our country (see 9.3):

The following editorial changes have been made to this document:

- In order to coordinate with existing standards, the standard name is changed to "Flat Washers for Mechanical Properties of Fasteners";
- Incorporate the amendments to ISO 898-3:2018/Amd1:2020, the clauses involved are marked with vertical doubles in the outer margins Line (||) is marked;
- Replace the international documents cited for information with Chinese documents;
- Corrected the signs and symbols of performance grade 380HV gaskets (see Table 5):

Please note that some content of this document may be patented: The issuing agency of this document assumes no responsibility for identifying patents:

Introduction

Fasteners are the most commonly used basic mechanical parts, an indispensable part of the equipment manufacturing industry, and directly determine the major equipment:

and host product level, performance, quality and reliability: GB/T 3098 "Mechanical Properties of Fasteners" for the mechanical properties of different types of fasteners Provisions are made respectively to provide a basis for the design, manufacture, acceptance inspection and use of fasteners: It is intended to be composed of 30 parts:

- GB/T 3098.1 Mechanical properties of fasteners Bolts, screws and studs;
- GB/T 3098.2 Mechanical properties of fasteners nuts;
- GB/T 3098.3 Mechanical properties of fasteners set screws;
- GB/T 3098.5 Mechanical properties of fasteners self-tapping screws;
- GB/T 3098.6 Mechanical properties of fasteners Stainless steel bolts, screws and studs;
- GB/T 3098.7 Mechanical properties of fasteners self-extrusion screws;
- GB/T 3098.8 Mechanical properties of fasteners - bolted parts used at:200°C ~ 700°C;
- GB/T 3098.9 Mechanical properties of fasteners - effective torque profile steel lock nut;
- GB/T 3098.10 Mechanical properties of fasteners Bolts, screws, studs and nuts made of non-ferrous metals;
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- GB/T 3098.15 Stainless steel nuts for mechanical properties of fasteners;
- GB/T 3098.16 Mechanical properties of fasteners Stainless steel set screws;
- GB/T 3098.17 Preload test parallel bearing surface method for hydrogen embrittlement test of mechanical properties of fasteners;
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