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NATIONAL STANDARD OF THE
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ICS 21.060.30

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GB/T 9074.31-2017

Conical spring washers for assemblies

组合件用锥形弹性垫圈

Issued on: December 29, 2017

Implemented on: April 01, 2018

Issued by: General Administration of Quality Supervision, Inspection and Quarantine;

Standardization Administration of the People's Republic of China.

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Foreword

This Part is one of “Fastener - Assemblies” series national standards. This series includes:

- GB/T 9074.1, *Bolt or screw and washer assemblies with plain washers;*
- GB/T 9074.2, *Cross recessed pan head screw and serrated lock washer external teeth assemblies;*
- GB/T 9074.3, *Cross recessed pan head screw and single coil spring lock washer assemblies;*
- GB/T 9074.4, *Cross recessed pan head screw, single coil spring lock washer and plain washer assemblies;*
- GB/T 9074.5, *Cross recessed small pan head screw and washer assemblies with plain washers;*
- GB/T 9074.7, *Cross recessed small pan head screw and single coil spring lock washer assemblies;*
- GB/T 9074.8, *Cross recessed small pan head screw, single coil spring lock washer and plain washer assemblies;*
- GB/T 9074.9, *Cross recessed countersunk head screw and countersunk external toothed lock washer assemblies;*
- GB/T 9074.10, *Cross recessed raised countersunk head screw and countersunk external toothed lock washer assemblies;*
- GB/T 9074.11, *Cross recessed hexagon bolt with indentation and plain washer assemblies;*
- GB/T 9074.12, *Cross recessed hexagon bolt with indentation and single coil spring lock washer assemblies;*
- GB/T 9074.13, *Cross recessed hexagon bolt with indentation, single coil lock washer and plan washer assemblies;*
- GB/T 9074.15, *Hexagon head bolt and single coil spring lock washer assemblies;*
- GB/T 9074.16, *Hexagon head bolt and serrated lock washer external teeth assemblies;*
- GB/T 9074.17, *Hexagon head bolt, single coil spring lock washer and plain washer assemblies;*

Conical spring washers for assemblies

1 Scope

This Part of GB/T 9074 specifies type size, technical conditions and marks of conical spring washers for assemblies.

This Part applies to conical spring washers used for bolt or screw and conical washer assemblies that comply with GB/T 9074.32 (hereinafter referred to as the washers). This Part applies to the washers that the specifications are 2.5mm ~ 12mm, that are used together with bolts or screws (GB/T 3098.1) of which the performance levels are 8.8 and 10.9. If used for bolts or screws that the performance level is less than 8.8, due to deformation of the contact surface, the performance of the washers shall be significantly reduced.

NOTE: After installed according to sufficiently high preload, the washers can prevent the preload loss caused by deformation and creepage. According to the provisions of GB/T 94.4, the residual elasticity can be used as the initial performance evaluation of the washers. Under the effect of lateral load, the anti-loosening performance cannot be ensured. Therefore, it is only used for short bolts that mainly bear axial load.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

GB/T 90.1, *Fasteners - Acceptance inspection*

GB/T 90.2, *Fasteners - Marking and packaging*

GB/T 94.4, *Specifications for spring washers - Conical spring washers*

GB/T 1237, *Designation system for fasteners*

GB/T 5267.1, *Fasteners - Electroplated Coatings*

GB/T 5267.2, *Fasteners - Non-electrolytically applied zinc flake coatings*

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