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

GB/T 879.5-2018

Replacing GB/T 879.5-2000

Spring-type straight pins -- Coiled -- Light duty

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Foreword

GB/T 879 "elastic cylindrical pin" consists of 5 parts.

---GB/T 879.1 elastic cylindrical pin straight groove heavy;

---GB/T 879.2 Elastic cylindrical pin straight groove light;

---GB/T 879.3 elastic cylindrical pin rolled heavy;

---GB/T 879.4 elastic cylindrical pin rolling standard type;

---GB/T 879.5 Elastic cylindrical pin for light weight.

This part is the fifth part of GB/T 879.

This part is drafted in accordance with the rules given in GB/T 1.1-2009.

This part replaces GB/T 879.5-2000 "Flexible Cylindrical Pin Rolling Lightweight", compared with GB/T 879.5-2000, the main technology

The changes are as follows.

---Change the nominal diameter size code (see Chapter 1, Figure 1, Table 1);

--- For steel, martensitic stainless steel elastic pin, increase the hardness test provisions (see Table 2);

--- For steel elastic pins, increase the technical requirements for non-electrolytic zinc sheet coating according to GB/T 5267.2 (see Table 2);

--- For stainless steel elastic pins, increase the passivation treatment technical requirements according to GB/T 5267.4 (see Table 2).

This section uses the redrafting method to modify the use of ISO 8751.2007 "elastic cylindrical pin coiling light" (English version).

The technical differences with ISO 8751.2007 and their reasons are as follows.

--- In the normative reference documents, replace the international standards with Chinese

standards (see Chapter 2), increase the reference to GB/T 5267.2 (see Table 2),

GB/T 5267.4 (see Table 2), GB/T 11376 (see Table 2), GB/T 15519 (see Table 2), GB/T 90.2 (see Table 2) and

GB/T 1237 (see 6.1) to comply with China's fastener basic standards;

--- Amend the explanatory text in Table 1 to the note of the table "Note. the preferred length range between the solid lines of the ladder." (see Table 1), and other current

The national standard is consistent;

--- For steel elastic pins, increase the technical requirements for non-electrolytic zinc sheet coating according to GB/T 5267.2 (see Table 2), in order to meet the surface resistance of steel elastic pins

Corrosion requirements;

--- For stainless steel elastic pins, increase the passivation treatment technical requirements according to GB/T 5267.4 (see Table 2) to meet the stainless steel elastic pin surface

Anti-corrosion requirements;

--- Add "If other technical requirements or surface treatment are required, the supply and demand agreement should be provided" (see Table 2);

--- Increase packaging technical requirements (see Table 2) to meet the basic standards of fasteners in China;

--- Add an angle note in Table 2 "c When using electroplating or phosphating, hydrogen embrittlement is unavoidable, and hydrogen treatment should be taken immediately (see GB/T 5267.1). "In accordance with the provisions of GB/T 5276.1 (see Table 2);

--- Modify the tag example as a simplified tag example (see 6.2) to comply with the provisions of GB/T 1237.

This section also made the following editorial changes.

--- Delete the reference of ISO 8751.

This part was proposed by the China Machinery Industry Federation.

This part is under the jurisdiction of the National Fastener Standardization Technical Committee (SAC/TC85).

This section is responsible for drafting the unit. China Machine Productivity Promotion Center.

Participated in the drafting of this section. Shanghai Balling Standard Parts Co., Ltd., Anhui

Ningguo Dongbo Fastener Co., Ltd., Machinery Industry

Use the product quality supervision and testing center.

This part is explained by the National Fastener Standardization Technical Committee.

The previous versions of the standards replaced by this section are.

---GB/T 879.5-2000.

Elastic cylindrical pin for light weight

1 Scope

This part of GB/T 879 specifies the type dimensions, applications, technical conditions and markings of rolled, lightweight elastomeric pins.

This part is applicable to nominal diameter $d_1=1.5\text{mm}\sim 8\text{mm}$, steel, austenitic and martensitic stainless steel, rolled and lightly loaded

Elastic cylindrical pin.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article.

Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 90.1 fastener acceptance inspection (GB/T 90.1-2002, idt ISO 3269:2000)

GB/T 90.2 Fastener Marking and Packaging

GB/T 1237 fastener marking method (GB/T 1237-2000, eqv ISO 8991:1986)

GB/T 1800.2 Geometrical Product Specifications (GPS) Limits and fits Part 2. Standard tolerance classes and

Table (GB/T 1800.2-2009, ISO 286-2: 1988, MOD)

GB/T 4340.1 Metallic materials - Vickers hardness test - Part 1. Test methods (GB/T 4340.1-2009, ISO 6507-

1:2005, MOD)

GB/T 5267.1 Fastener Plating (GB/T 5267.1-2002, ISO 4042:1999, IDT)

GB/T 5267.2 fastener non-electrolytic zinc sheet coating (GB/T 5267.2-2002, ISO 10683:2000, IDT)

GB/T 5267.4 fastener surface treatment corrosion-resistant stainless steel passivation

treatment (GB/T 5267.4-2009, ISO 16048.2003,

IDT)

GB/T 11376 metal phosphate conversion film (GB/T 11376-1997, eqvISO 9717.1990)

GB/T 13683 pin shear test method (GB/T 13683-1992, eqvISO 8749. 1986)

GB/T 15519 chemical conversion film steel black oxide film specification and test method (GB/T 15519-2002, ISO 11408.

1999, MOD)

3 type size

The type and size of the pin are shown in Figure 1 and Table 1.

a Squeeze the chamfer at both ends.

figure 1