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

GB/T 1239.3-2009

Replacing GB 1239.3-1989

**Cold coiled helical springs technical specifications - Part 3:
Torsion spring**

冷卷圆柱螺旋弹簧技术条件 第3部分：扭转弹簧

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Foreword

GB/T 1239 "Cold coiled helical springs technical conditions" is divided into three parts.

--- Part 1. Tension springs;

--- Part 2. Compression spring;

--- Part 3. Torsion springs. This part of GB/T 1239 Part 3. This part is GB/T 1239.3-1989 "Cold coiled helical torsion spring technical conditions" amendments. Remains revision GB/T 1239.3-1989 "Cold coiled helical torsion spring technology" valid part, no longer suited to the contents of the re Amendments. The main technical differences between this standard and the revised section as follows:

--- Standard reference material for a comprehensive new investigation, using the latest version has been revised to replace the original standards referenced in the old version;

--- According to GB/T 1805-2001 "spring term" original standard relates to torque, stiffness, deformation and other symbols amended;

--- On the order of the chapters were adjusted to GB/T 1239.1 ~ 1239.3 standard order of sections consistent. Appendix A to this part of the appendix informative. This part is proposed by China Machinery Industry Federation. This part of the spring by the National Standardization Technical Committee (SAC/TC235) centralized. This section is responsible for drafting unit. Changzhou Ming Kam Spring Co., Ltd., the machine Productivity Promotion Center. Participated in the drafting of this section. Zhejiang Meili Spring Co., Ltd., Hangzhou Qianjiang Spring Co., Ltd. Zhejiang Jinchang Spring Co., Ltd., North Beijing Spring Factory, Wuxi abundance of spring Limited. The main drafters of this section. Jiang Xinrong, Tushi Run, Zhangyong Sen, Wang Wei, He Yongyi, Lu Bacon, Jiang Ying, You Weiming, Zhao Zhipeng. This part of the standard replaces the previous editions are.

--- GB 1239-1976, GB/T 1239.3-1989. Cold coiled helical springs - Technical specifications Part 3. Torsion springs

1 Scope

GB/T 1239.3-2009 is the Chinese national standard on cold coiled helical springs technical specifications - part 3: torsion spring, in the field of mechanical systems and components. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 16 March 2009 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 November 2009. Classification: ICS 21.160, CCS J26. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This section GB/T 1239 provides for cold rolling cross-section helical torsion spring of technical requirements, test methods, inspection rules and packet Equipment, signs, transportation, storage requirements. This section applies to cold rolling cross-section helical torsion spring (hereinafter referred to as spring), spring material cross-sectional diameter of greater than or equal 0.5mm. This section does not apply to the special requirements of the spring.

2 Normative references

The following documents contain provisions which, through reference to

GB/T 1239 to the present, constitute provisions of this section. For dated reference documents Member, all subsequent amendments (not including errata content) or revisions do not apply to this section, however, encouraged to reach under this section Parties to research agreement to use the latest versions of these documents. For undated reference documents, the latest versions apply to this section. GB/T 1805 spring term

GB/T 4357-1989 carbon spring steel wire (neqJISG3521. 1984)

GB/T 18983 quenching oil - tempered spring steel wire (

GB/T 18983-2003, ISO /FDIS8458-3.1992, MOD)

GB/T 21652 Copper and copper alloy wire

JB/T 7944 sampling inspection helical springs YB (T) 11 stainless steel wire for springs

YB/T 5311 important use of carbon spring steel wire YS/T 571 beryllium copper wire

3 Terms and Definitions

GB/T 1805 and established the following terms and definitions apply GB/T 1239 to the

present section.

3.1 When the spring characteristic test, the maximum torque of the spring allowed to bear (load) T_s of, in units of $N \cdot mm$.

3.2 Materials allowed to bear the maximum bending stress σ , the unit is MPa.

4 Structure type

Spring structure type in Table 1.