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CCS J26



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

GB/T 13828-2009

Replacing GB/T 13828-1992

Stranded wire cylindrical helical springs

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Foreword

This standard is GB/T 13828-1992 "stranded helical springs" amendments. Remains revising GB/T 13828-1992 "Stranded helical springs" in the effective part, no longer meet the revised content. This standard was revised standard version of the master To technical differences are as follows:

--- According to the original standard GB/T

1.1 were editorial changes;

--- 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;

--- The original standard section adjustment;

--- The body of the appendix into working drawings. Appendix B of this standard is a normative appendix, Appendix A, Appendix C of Appendix informative. The standard proposed by China Machinery Industry Federation. The standard spring by the National Standardization Technical Committee (SAC/TC235) centralized. This standard is drafted by: Kunlun state-owned machinery factory, the machine Productivity Promotion Center. Participated in the drafting of this standard. Hangzhou Qianjiang Spring Co., Ltd., Hangzhou Xingfa Spring Co., Ltd., Li Chau Group Holdings Limited, Zhejiang Jiang Meili Spring Co., Ltd., Zhejiang Jinchang Spring Co., Ltd. Changzhou Ming Kam Spring Co., Ltd. The main drafters of this standard. the package by the Greek land bacon, Jiang Ying, Tushi Run, Wang Wei, Zhanggui Jun, Liang Quan, Shao Chengyu, Yan Shiping. This standard replaces the standards previously issued as follows:

--- GB/T 13828-1992. Stranded helical springs

1 Scope

GB/T 13828-2009 is the Chinese national standard on stranded wire cylindrical helical springs, 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 standard specifies the multi-strand cylindrical helical compression springs, tension springs, torsion spring design calculations, technical requirements, test methods and inspection rule. This standard applies to more ordinary shares of cylindrical spiral compression, tension and torsion springs (hereinafter referred to as spring).

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard. 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, MOD)

JB/T 7944 sampling methods common cylindrical coil spring YB/T 5311 important use of carbon spring steel wire

3 Terms and symbols

Terminology and symbols used in this standard shall comply with GB/T 1805 and Table 1. Table

1 Parameter Name Code Unit mm Cable twist angle β ($^{\circ}$) Expand the wire length L
Three (four) shares wire length L

1 Expand mm Material shear modulus G Elastic modulus E Tensile strength R_m Working shear stress τ Allowable shear stress $[\tau]$ Test shear stress τ_{test} Bending stress σ Allowable bending stress $[\sigma]$ Test bending stress σ_{test} MPa Hemp number m1