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

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**Springs installed in hermetic motor-compressors - Technical
specifications**

全封闭型电动机-压缩机用弹簧 技术条件

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009. This standard by the National Standardization Technical Committee spring (SAC/TC235) and focal point. This standard is drafted by Zhangjiagang Deer Spring Manufacturing Co., Ltd., Hangzhou Qianjiang Spring Co., Ltd. Guangzhou Spring Spring Limited company, machine productivity promotion center. Participated in the drafting of this standard. Tianjin Fu Electronic Materials Factory, Gasbera Compressor Co., Ltd., Xi'an Qingan refrigeration equipment shares Co., Ltd., Yangzhou Zhaohong Spring Co., Ltd., Yangzhou Ming Feng Spring Co., Ltd., Hubei Xin Bao Ma Spring Co., Ltd. The main drafters of this standard. Xu Huilong, Zhang Yongsan, Chen Guixiang, Yu Fang, Gao Hongfu, Gong Qinghua, Fan Zengzeng, Si Zhao Nian, Gu Yunfeng, Ma Po Lu, Xu Guofang, Cheng Peng, Jiang Ying, Lu Bacon, Shu Rongfu. Fully enclosed motor - compressor With spring technical conditions

1 Scope

China's national specification for the cold coiled springs used inside hermetic motor-compressors. It specifies the structure, the technical requirements, the test methods, the inspection rules and the marking, packaging, transport and storage, and it applies to springs of round or shaped section for fully enclosed motor-compressors. A hermetic compressor is the sealed steel shell in every refrigerator and air conditioner, containing the motor and the compressor together in an atmosphere of refrigerant and oil. The springs inside it suspend the running gear from the shell, and their job is to keep the compressor's vibration from reaching the housing and becoming the hum a customer hears in the kitchen at night. What makes them a specified component is where they live. They work permanently immersed in refrigerant and lubricating oil, at temperatures that swing with every cycle, for the fifteen or twenty years the appliance is expected to last - and they cannot be inspected, adjusted or replaced, because opening the shell destroys the compressor.

This standard specifies the fully enclosed motor - compressor with a cross-sectional material cold coil coil spring structure, technical requirements, test side Law, inspection

rules, marking, packaging, transportation and storage. This standard applies to fully enclosed motor - compressor with support springs, including. Equal pitch cylindrical helical compression spring, such as pitch cone cut screw Helical springs and equal pitch concave helical springs (hereinafter referred to as springs). Fully enclosed motor - compressor with other types of springs can refer to the use of this standard.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version applies to this article Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 1805 spring terminology

GB/T 2828.1 Sampling procedures for sampling inspection - Part 1. Batch inspection sampling plan retrieved by acceptance quality limit (AQL)

GB/T 4357 cold drawn carbon steel spring wire

GB/T 9098 refrigerator with a fully enclosed motor - compressor

GB/T 10610 Geometrical product specifications (GPS) Surface texture profile method for the determination of surface texture rules and methods

GB/T 18983 oil quenching - tempering spring steel wire

JB/T 10802 spring shot peening technical specifications YB/T 5311 important use carbon spring steel wire

3 Terms and definitions

GB/T 1805 defined terms and definitions apply to this document.

4 Structure type

Spring type, code, schematic and end structure type shown in Table 1. Spring support ring should be ≥ 4 laps, each side should be less than 2 laps. Table

1	Type	Code	Schematic	End Structure	Type	Such as
	pitch	Cylindrical	screw	Rotary		
	compression	spring	BYI	both ends of the ring		
				tight grinding	flat	