

高温耐磨热电偶

High temperature wear-resistant thermocouple

概述

高温耐磨热电偶是专为循环硫化床锅炉测温的专用热电偶。它要求有很高的抗氧化性能及高温强度，耐震动、耐磨损，有良好的抗热震性。其测量温度 0~1000℃。

我厂生产的高温耐磨热电偶外保护管采用具有自主知识产权的高温耐磨材料，该材料是由国内著名材料研究机构与我厂联合研制开发。历经 3 年，经大量试验，该种材料冶炼、浇铸工艺独特，可进行深盲孔加工或深盲孔一次成型。与国内市场同类材料相比具有显著优势，在高温工况条件下，具有相当高的硬度，同时又具有良好韧性，在保证耐磨损的前提下，抗冲击性能优异。

我厂高温耐磨热电偶制造工艺独特。外保护管深盲孔加工采用从德国 TBT 公司引进的深孔钻，保护管焊接采用德国 EWM 公司全自动氩弧焊技术，从生产装备及工艺技术上保证了制成品的质量。使产品在循环硫化床锅炉膛一般使用寿命可达 12 个月以上，达到国内领先水平。

本产品也可用于磨煤机、水泥熟料等流动粉体的温度测量。

主要技术指标 Main technical parameters

名称 Name	镍铬 - 镍硅热电偶 Nickel chrome-nickel silicon thermocouples
分度号 Graduation	K
测温范围 Temperature measuring range (℃)	0~1000
允许偏差 Allowable deviation Δt(℃)	± 2.5℃或± 0.75% t
安装结构 Installation structure	固定法兰 Mounting flange (HGJ46-91)

其它技术指标均符合 JB/T9238-1999 工业热电偶技术条件。  
Other technology indexes accord with JB/T9238-1999 industrial thermocouple technical conditions.  
注 Notes: 其它安装结构形式可根据用户需要作特殊订货处理。  
Other installation structure form can be based on user needs to be a special order processing.

Description

High temperature wear-resisting thermocouple is designed for the temperature measurement of circulating fluidized bed boiler. The high antioxidant properties and high temperature strength, shock resistance, wear resistance and good thermal shock resistance are required. The measurement temperature is 0~1000℃ .

The high temperature wear-resisting thermocouple protection tube of our company is adopted high temperature wear-resisting material of our patent. This material is jointly research and developed by the domestic famous materials research institutions and our factory. This kind of material smelting and casting technology are unique. Compared with similar material, it has significant advantages. Not only with high hardness, but also has a good toughness and wear resistance. The impact resistance performance is excellent.

Thermocouple temperature abrasion resistance of our factory adopts unique manufacturing process. The deep blind hole processing of outer protective tube uses deep hole drilling introduced from German TBT firm, and tube welding uses automatic argon arc welding technology from German EWM firm, which guarantee the product quality from producing equipment and processing technology. The service life can reach more than 12 months to reach the leading level in China.

This product can also be used to coal mill, the cement clinker and flow powder temperature measurement.

型号表示 Model explanation





中外技术合作企业 Sino-Foreign Technical Cooperation Enterprise  
权威注册 Authoritative Registration: CE / API / TSG  
国家级高新技术企业 National High-Tech Enterprise

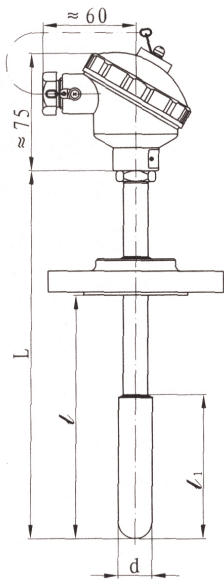
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### 种类与规格 Kinds and specifications

型号 Type	分度号 Graduation	测温范围 measuring range℃	保护管直径 Protection tube diameter	规格 Specification LX l	耐磨长度 Wear-resisting length l 1
WRNN-436	K	0~1000	★24 ★22 25 32	550X400 650X500 900X750 1150X1000	300 ★200 ★100
WRNN <sub>2</sub> -436	K	0~1000	★24 ★22 25 32	550X400 650X500 900X750 1150X1000	



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根据用户需要作特殊订货处理。  
order specially based on requirements.



高温耐磨热电偶产品照片  
Pictures of high temperature wear-resisting thermocouple products