

Rubber Coated Metal Materials

金属橡胶复合材料

GN3025-SPCC

产品性能

该材料为新型密封材料，通过特定的生产工艺在金属基材表面均匀涂覆橡胶层；该材料具有良好的耐热、耐久性能，并且具有极低的压强永久变形率。与传统的非金属密封材料相比，该材料具有相对较长的使用寿命，因此，通常应用在压力更大、温度更高、密封要求更苛刻的使用环境中。

技术指标

项目名称	指标要求		
橡胶种类	丁腈橡胶		
金属基材	SPCC		
外观	亚光半黑色		
总厚度(MM)	0.30 ± 0.02		
基材厚度(MM)	0.25 ± 0.01		
橡胶厚度(MM)	0.025 ± 0.005 (单面)		
最高使用温度	≤ 150℃		
橡胶附着力	100%无脱落		
金属基材硬度(HV)	140-160		
耐介质性	ASTM3#油 (150℃5h)	增重率, %	≤ 10
		增厚率, %	≤ 8
	ASTM B种油 (21~30℃5h)	增重率, %	≤ 10
		增厚率, %	≤ 8

Description

GN3025-SPCC is a new kind of sealing material that was produced from special procession of coating rubber overlaid evenly on the surface of metal core. Provide excellent performance of high-temperature resistance and durability. It has a relatively long shelf life than other traditional non-metallic sealing materials. Therefore, It was generally used in harsh environmental condition of extra pressure and ultra-temperature sealing requirement.

Technical Specifications

Property	Specification	
Rubber type	NBR	
Metal Core	SPCC	
Appearance	Semi-luster black	
Total thickness (MM)	0.30 ± 0.02	
Metal core thickness (MM)	0.25 ± 0.01	
Rubber coating thickness (MM)	0.025 ± 0.005 (Single side)	
Max. Operation Temp.	≤ 150℃	
Rubber Adhesives	100% no precipitation	
Metal Core Hardness Value(HV)	140-160	
Fluid Resistance (at ASTM standard oil #3, 150℃, 5h)	Weight Change (%)	≤ 10
	Thickness Change(%)	≤ 8
Fluid Resistance (at ASTM fuel B, 21-30 °C, 5h)	Weight Change (%)	≤ 10
	Thickness Change(%)	≤ 8

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