

Rubber Coated Metal Material

金属橡胶复合材料

GN3825-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	指标要求	
橡胶种类	丁腈橡胶	
金属基材	SPCC	
外观	亚光半黑色，光滑	
总厚度 (mm)	0.38±0.02	
金属基材厚度 (mm)	0.25±0.01	
橡胶层厚度 (mm)	0.065±0.005(单面)	
最高使用温度 (°C)	≤150°C	
橡胶附着力 ASTM-D3359	100%无脱落	
胶层拉脱强度 (Mpa) ASTM-D4541-09	≥1.4	
基材硬度 (HV)	115 ~ 150	
未老化测试	橡胶硬度(A) ASTM D-2240	70 ~ 80
	拉伸强度(Mpa) ASTM D-412	≥8
	延伸率 (%) ASTM D-412	≥200
热老化 70小时 100°C	硬度变化 (%) ASTM D-573	-15 ~ 15
	拉伸强度变化 (%) ASTM D-573	-30 ~ 30
	IRM903#油，浸 油体积变化率 (%) ASTM D-471	≤40

Description :

GN3825-SPCC is a new kind of sealing material that made from special process of evenly distributed rubber coating on the surface of based metal steel core. It provides excellent performance of high-temperature resistance and sealing durability. It has a relatively long shelf life than other soft sealing materials. It's recommended to use in tough environmental condition with high temperature and pressure applications.

Technical Specifications:

Property	Specification	
Rubber Type	NBR	
Base Metal Type	SPCC	
Surface Appearance	Semi-luster black	
Overall Thickness (mm)	0.38±0.02	
Base Metal Thickness(mm)	0.25±0.01	
Rubber Coating Thickness(mm)	0.065±0.005 (Per side)	
Max . Operation Temp (°C)	≤150°C	
Rating Adhesion Test ASTM-D3359	100% residual	
Pull Off Test (Mpa) ASTM-D4541-09	≥1.4	
Base Metal Hardness (HV)	115 ~ 150	
Unaged Physicals	Shore A duromete (Points) ASTM D-2240	70 ~ 80
	Tensile Strength Mpa (Min.) ASTM D-412	≥8
	Ultimate Elongation (% min) ASTM D-412	≥200
Heat Aged (70 hrs@100°C)	Change in Durometer hardness (Points) ASTM D-573	-15 ~ 15
	Change in Tensile Strength (% max.) ASTM D-573	-30 ~ 30
	Volume Change (% max.) Oil IRM 903, ASTM D-471	≤40

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