

Rubber Coated Metal Material

金属橡胶复合材料

MC8025-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 | 丁腈发泡橡胶 | |
| 金属基材 | SPCC | |
| 外观 | 亚光半黑色，光滑 | |
| 总厚度 (mm) | 0.80±0.20 | |
| 金属基材厚度 (mm) | 0.25±0.01 | |
| 橡胶层厚度 (mm) | 0.275±0.10(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 | ≥0.8 | |
| 基材硬度 (HV) | 115~ 150 | |
| 未老化测试 | 橡胶硬度 (A) ASTM D-2240 | 45~55 |
| | 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 :

MC8025-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 | Foamed NBR | |
| Base Metal Type | SPCC | |
| Surface Appearance | Semi-luster black | |
| Overall Thickness (mm) | 0.80±0.20 | |
| Base Metal Thickness(mm) | 0.25±0.01 | |
| Rubber Coating Thickness(mm) | 0.275±0.10 (per side) | |
| Max . Operation Temp (°C) | ≤150°C | |
| Rating Adhesion Test ASTM-D3359 | 100% Residual | |
| Pull Off Test (Mpa) ASTM-D4541-09 | ≥0.8 | |
| Base Metal Hardness (HV) | 115~ 150 | |
| Unaged Physicals | Shore A duromete (Points) ASTM D-2240 | 45~55 |
| | 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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