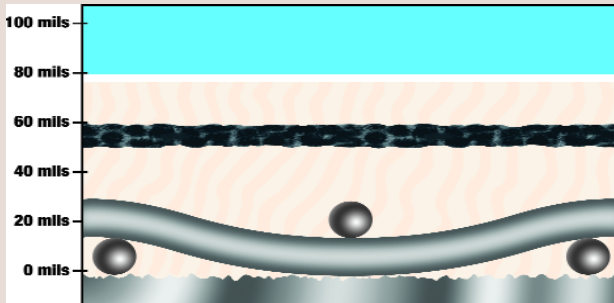


SermaShield™ GSC-MS Advanced PFA Coating



Description

SermaShield GSC-MS is made from fully-fluorinated, 100% Teflon® PFA resins that contain no fillers or additives. The coating is spray applied to the substrate in successive layers and cured after each coat. An effective bond between the coating and substrate is achieved by welding a steel mesh to the substrate before the SermaShield polymer is applied. The polymer then flows into and around the woven mesh and provides a bond strength equal to the tear strength of the polymer. An additional activated carbon barrier offers increased longevity and mitigates the effects of permeation in severe applications.

Advantages

- Full vacuum rating over the entire pH range
- Pinhole free
- Applied as aqueous dispersion at room temperature
- Easily coats complex geometries
- Available in thickness from 80-100 mils
- Coating system operating temperature range: -310°F to 482°F (-190°C to 250°C)

Applications

SermaShield GSC-MS offers increased component longevity in severe applications. The mechanical bond is more tolerant to the effects of permeation and is protected by an intermediate carbon layer, which makes SermaShield GSC-MS ideally suited for a wide range of applications including:

- Main Covers • Packed Columns • Reactors • Vapor Lines

Field Repair Capability

SermaShield GSC-MS can be repaired on site should mechanical damage occur during use. The coating's ability to "melt flow" at elevated temperatures allows for quick and reliable repairs that can reduce expensive downtime costs.

Technical Data

| |
|---|
| Operating Temperature Range: -310°F to 482°F (-190°C to 250°C) |
| Chemical Resistance: Equal to PTFE |
| pH Range: 0-14 |
| Available Thickness: 80-100 mils |
| Final Continuity Test: 10 KV-DC |
| Suitable for Vacuum Service |
| Compatible with all substrates except alloys with high copper content |
| Field Repairable |

In-Service Inspection

Fluoropolymer coatings should be checked for delamination, disbondment, stress cracking or discoloration on a periodic basis. Any identified defects should be reported to a Sermatech representative immediately. In-service spark testing of process equipment coated with SermaShield GSC-MS is NOT RECOMMENDED due to the effects of process chemistry and the designed performance of the activated carbon layer. In-service testing will cause sparking to the activated carbon layer, produce false results and lead to the premature failure of the coating system.

Nozzle & Column Length Guidelines

| Nozzle/Column Diameter | Blue Armor® Halar®, ETFE | SermaShield GSC-C SermaShield GSC-CS | SermaShield GSC-M SermaShield GSC-MS |
|------------------------|--------------------------|--------------------------------------|--------------------------------------|
| 1/4" to 1" | Pad Flange | N/A | N/A |
| 1" to 2" | Pad Flange | Pad Flange | N/A |
| 2" to 2 1/4" | 12" | 6" | Pad Flange |
| 3" to 3 1/4" | 12" | 6" | Pad Flange |
| 4" | 18" | 36" | 18" |
| 5" | 36" | 36" | 18" |
| 6" | 96" | 60" | 30" |
| 8" | 96" | 60" | 30" |
| 10" | 120" | 60" | 36" |
| 12" | 120" | 60" | 36" |
| 14" | 120" | 72" | 48" |
| 16" | 144" | 72" | 48" |
| 18" | 144" | 120" | 48" |
| 20" | 168" | 120" | 96" |
| 24" | ** | ** | 120** |

**Check with the facility for maximum lengths.



The suitability of SermaShield GSC-MS for use is dependent upon process environment. Please contact your Sermatech representative to ensure that the coating is compatible with your process conditions.

SermaShield contains Fluoroshield plus other proprietary materials by Sermatech.

For more information or to place an order, call Sermatech Texas 713-849-9474.

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