



# Fluoroshield® GSC-CS



## Description

Fluoroshield® GSC-CS is made from fully-fluorinated, 100% PFA resins that contain no fillers or additives. The coating is spray applied to the substrate in successive layers and cured after each coat. A spray-applied proprietary fusion layer between the substrate and the coating gives Fluoroshield® GSC-CS bond strengths well in excess of that required to resist full vacuum. An additional activated carbon barrier offers increased longevity and mitigates the effects of permeation in severe applications.

## Applications

The universal chemical resistance of Fluoroshield® GSC-CS, combined with its ease of application to most complex geometries, make it ideally suited for a wide variety of applications including:

- Baffles
- Centrifuges
- Storage Tanks
- Receivers
- Filters
- Columns
- Covers
- Vessels
- Glove Boxes

## In-Service Inspection

Fluoropolymer coatings should be checked for delamination, disbonding, stress cracking or discoloration on a periodic basis. Any identified defects should be reported immediately. In-service spark testing of process equipment coated with Fluoroshield® GSC-CS 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 Fluoroshield® coating system.

## Technical Data

Operating Temperature Range: -310°F to 212°F (-190°C to 100°C)
Chemical Resistance: Equal to PTFE
pH Range: 0-14
Available Thickness: 60 mils
Final Continuity Test: 10 KV-DC (Pinhole Free)
Suitable for Full Vacuum Service
Compatible with all substrates except alloys with high copper content
Field Repairable

## Field Repair Capability

Fluoroshield® GSC-CS 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.



*The suitability of Fluoroshield® GSC-MS for use is dependent upon process environment. Please contact your Fluoroshield® applicator to ensure that the coating is compatible with your process conditions.*

**VOGT ASSOCIATES, LLC.**

MATERIALS MANUFACTURING  
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