Fusion™ F10 Sealing Solutions

Provides Superior Cost of Ownership in Etch and Deposition Chambers

Fusion™ F10: Matching Sealing Performance to Your Application While Lowering Operating Costs

Fusion™ F10 was designed to deliver high performance at a lower cost of ownership than premium sealing technologies. Its ability to withstand temperatures up to 220°C (428°F), and a broad range of harsh chemicals, while reducing cost of ownership compared with premium sealing materials, make Fusion™ F10 an ideal choice for a wide variety of applications.

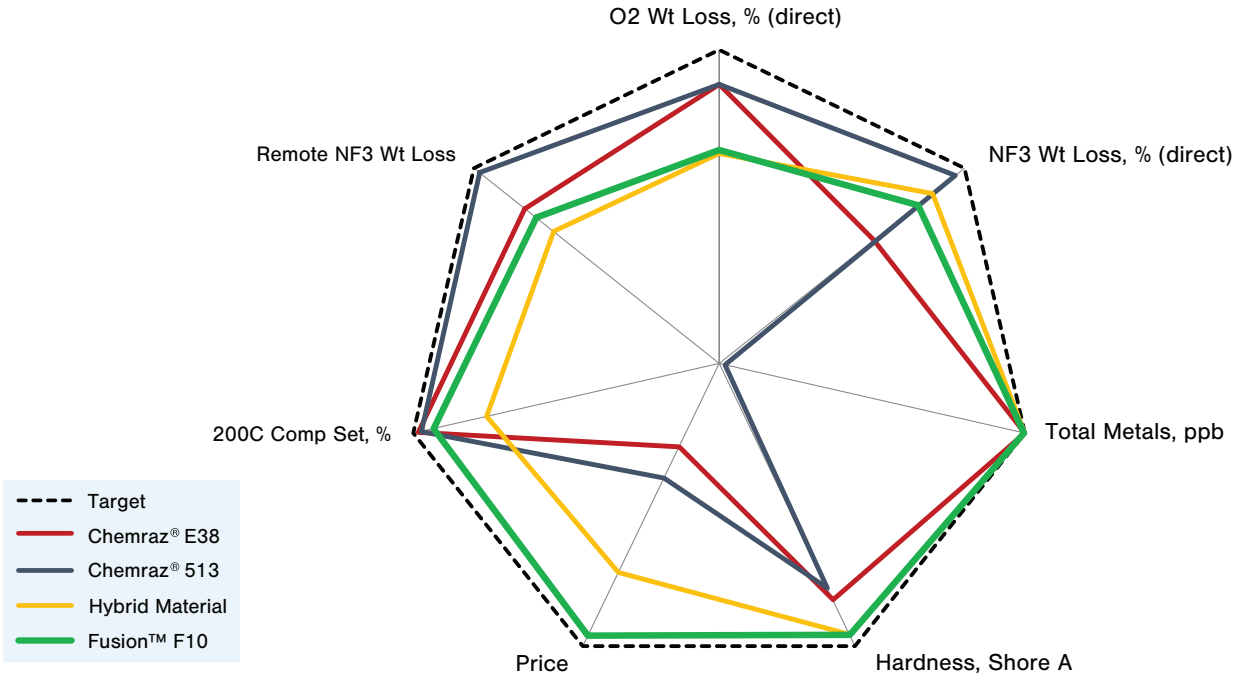
Recommended Process Applications

- Deposition: CVD, PECVD, HDPCVD, SACVD
- Plasma etching: Conductor, dielectric, metal

Applications

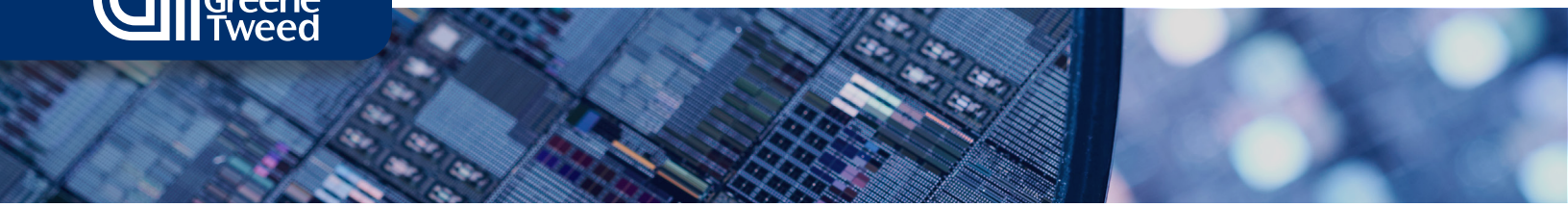
- Endpoint windows
- Isolator valve seals
- Chamber seals
- Valve seals
- Fitting seals

Compound No./Material Name: Fusion™ F10
Material Description: Tan fluoroelastomer
Manufacturing Method: Compression molded



Contact Us
Greene Tweed
Kulpsville, PA, USA
Tel: +1.215.256.9521
Fax: +1.215.256.0189

9/18-GT DS-US-SC-176



Fusion™ F10 Sealing Solutions

Compound No./Material Name:	Material Description:	Manufacturing Method
Fusion™ F10	Tan Fluoroelastomer	Compression Molded

Description	Fusion™ F10
Physical Properties (ASTM Standard)	
Color	Tan
Hardness, Shore A (D2240)	78
Mechanical Properties (ASTM Standard)	
Tensile Strength @ Break, psi [kPa] (D1414)*	1,450 [9,997]
Elongation, % (D1414)*	240
Tensile Modulus @ 100% Elongation, psi [kPa] (D1414)*	550 [3,792]
Compression Set @ 25% Deflection, 70 Hours @ 204°C [400°F], % (D395)*	23
Thermal Properties	
Maximum Operating Temperature	220°C (428°F)

** Unless otherwise noted, all tests performed on ASTM standard samples; test results from AS 568A size 214 o-rings.*

Color variations and dark spots that might be observed in Fusion™ parts are considered cosmetic and an inherent result of the polymer curing process. They are not foreign matter and not anticipated to adversely affect the performance of the part in service. Please contact a Greene Tweed applications engineer for additional information.

Contact Us
Greene Tweed
Kulpsville, PA, USA
Tel: +1.215.256.9521
Fax: +1.215.256.0189

9/18-GT DS-US-SC-176