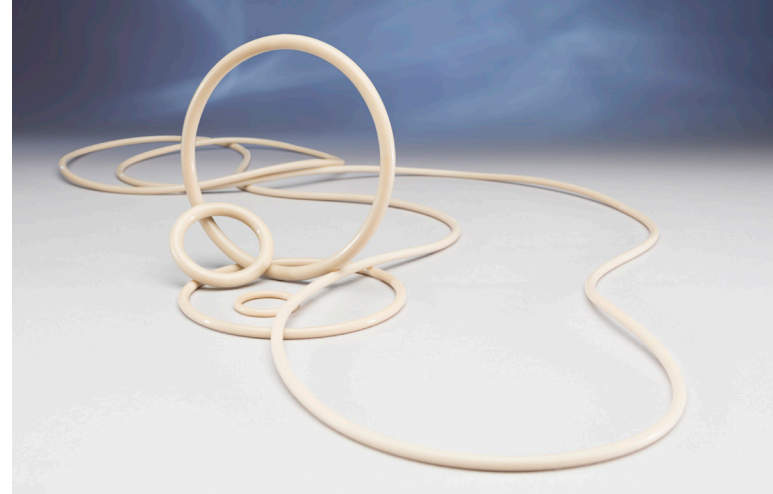


# Fusion® F10

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.



**Compound No./Material Name:** Fusion® F10 Material

**Description:** Tan fluoroelastomer

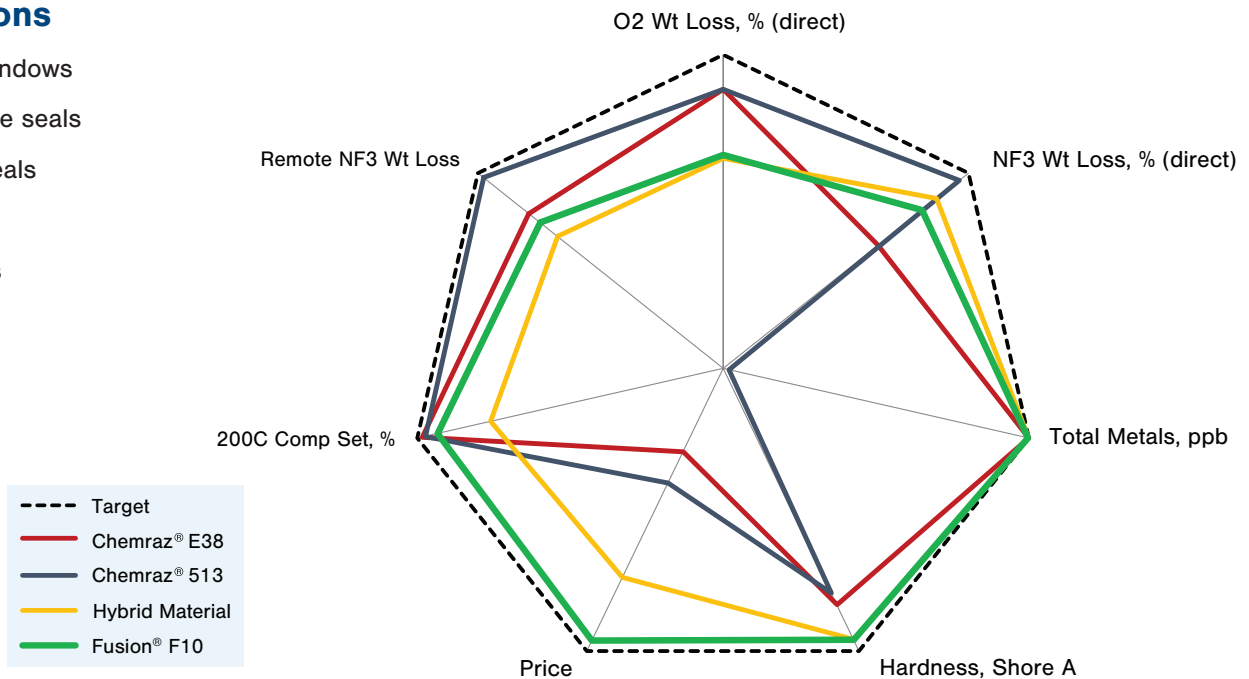
**Manufacturing Method:** Compression molded

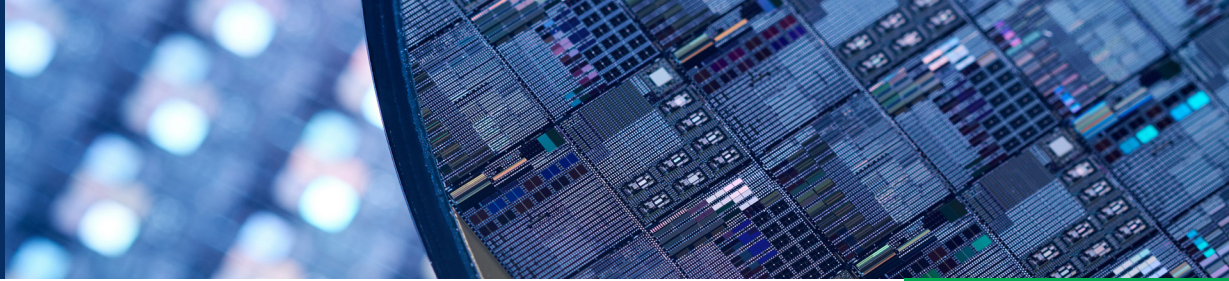
## Recommended Process Applications

- 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: <b>Fusion® F10</b>	Material Description: <b>Tan Fluoroelastomer</b>	Manufacturing Method <b>Compression Molded</b>
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Description	Typical
<b>Physical Properties (ASTM Standard)</b>	
Color	Tan
Hardness, Shore A (D2240)	78
<b>Mechanical Properties (ASTM Standard)</b>	
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
<b>Thermal Properties</b>	
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.

## Greene Tweed

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Statements and recommendations in this publication are based on our experience and knowledge of typical applications of this product and shall not constitute a guarantee of performance nor modify or alter our standard warranty applicable to such products.

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