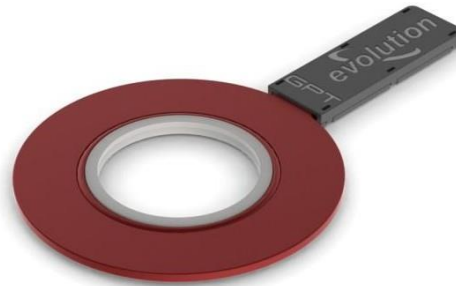


Evolution™ Data Sheet



Gasket Properties*

Carrier: 316L stainless steel core
Color: Maroon with black handle
Fluid Services: Oil and Gas
Maximum Operating Temperature (°F/°C): 500°F/260°C**
Minimum Operating Temperature: (minus): -60°F/-51°C
Maximum Pressure Class: ASME 2,500#/API 15,000

Typical Physical Properties*

<u>TEST</u>	<u>VALUE</u>	<u>TEST METHOD</u>
Water Absorption (%):	0.046	(ASTM D570)
Sealability Test:	.0011ml/min	(ASTM F37)
Compression Test:	140 MPa	(EN 13555 @ 260° C)
Creep Relaxation:	1.0	(EN 13555 @ 260° C)
Leakage Test:	2.9x10 ⁻¹¹ mg/m/s	(EN 13555 @ 40 bar Helium @ 135 Mpa gasket stress)
Hot Blowout Test:	No blowout	(HOBT @ 260° C @ 62.3bar)
Dielectric Strength:	1400 Volts/Mil	ASTM D149 (Short Time)
Tensile Strength Gasket:	70,000 psi	ASTM D638
Salt Spray Test:	2000 hours - No Visible Effect	ASTM B117

Thermal Properties*

Coefficient of Linear Thermal Expansion (thickness tested .125") X-axis/Y-axis: 10.0/13.0
(IPC-TM 650-2.4.24)
Flammability Rating: Fire retardant
Fire Testing: Passed per API 6FB

Electrical Properties*

Dielectric Strength (V/mil): 1400

Isolation Kit Options:

Seal Types: [Proprietary Coated C-ring](#), [PTFE pressure activated seal](#)

Sleeves: [G11](#), Mica

Washers: [DH](#), [DX](#), Stainless Steel, Mica

Carrier Options: [316LSS](#)

Note: Blue type indicates standard material.

Note: With Mica Sleeves and washers, the full kit is rated to 500F/260C. With G11 sleeves and washers, the full kit is rated to 392F/200C.

Notes:

This is a general guide and should not be the sole means of selecting or rejecting this material.

* Values are typical and do not constitute specification Limits

** Temperature rating when using Mica sleeves/washers

‡See GPT chemical resistance guide.

‡All isolation products are affected by exposure to heat and moisture where electrical isolation is concerned. Please note that field values may vary from test values due to exposure to one or both of these environmental factors.

4/3/2018