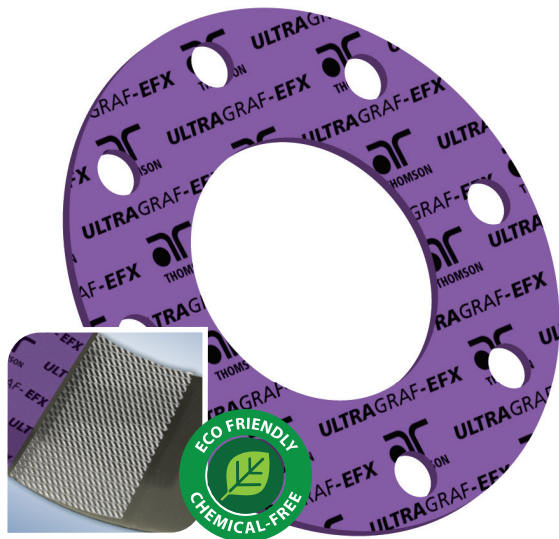


Thomson ULTRAGRAF® EFX



UltraGraf EFX combines the unique FlexMet® insert and Premium Flexible Graphite with oxidation inhibitor.

FEATURES / BENEFITS

- **316L FlexMet® Insert:**
 - Reduced sharp edges for safer handling.
 - Easier fabrication.
 - More even bolt loading and greater load retention during cycling.
- **EFX Graphite** is a premium grade flexible graphite with high purity and excellent oxidation resistance.
 - Superior volume retention for a tighter, long term seal.
- **Thomson Sure-Release® Anti-Stick** treatment makes gasket removal quicker and easier.
- **Improved surface finish:** Results in a more robust, less fragile gasket.
- **Easy to cut** on-site with industrial scissors, M3 hand wheel and electric cutters.
- **Plus all the benefits of Flexible Graphite:**
 - No fillers or binders allowing greater chemical range.
 - Excellent chemical compatibility.
 - Extreme temperatures and pressure.
 - Conforms well to surface irregularities.

TYPICAL APPLICATIONS

- Gaskets in a broad range of chemicals and hydrocarbons as well as LP & HP steam. (saturated & super heated)
- Chemical, petrochemical, oil refinery, Pulp & Paper OEM digester equipment, Pulp cooking liquors (white, black & green), and ASME pressure vessels.
- Power generation industries including shipbuilding, automotive, gas supply compressors, refrigeration, and pumps & valves. **Not intended for Acid applications.*

CERTIFICATIONS

- API 6FB FIRE SAFE
- ISO 10497 FIRE SAFE
- EN 12308 (Cryogenic)
- TA Luft (VDI 2440)
- ABS
- DNV GL
- DVGW DIN 3535-6

SPECIFICATIONS

Construction:

Premium quality, oxidation-resistant flexible graphite laminated to a unique, 316L SS FlexMet® insert.

Temperatures:

Minimum: -328°F (-200°C)
Maximum: +1300°F (+704°C)
Continuous: +850°F (+454°C)

**See reverse for technical data.*

Max Pressure:

2900 psi (200 bar)

Colour:

Mauve with black branding.

Sheet Sizes:

- Custom shapes and standard flange gaskets.
- Standard thicknesses: 1/32", 1/16" & 1/8" 59" x 59" sheets.
- Other sheet sizes & thicknesses available upon request.

TECHNICAL DATA - ULTRAGRAF® EFX

Physical Properties

TYPICAL PHYSICAL PROPERTIES

Weight Loss (Air 670°C/1238°F) 4h DIN28090-2:	%/h < 4
Oxidation Inhibitor: Y/N	Yes
Leachable Chloride FSA NMG 202: ppm	< 20
Sulfur Content ASTM D5016: ppm	< 300
Purity, Carbon Content DIN 51903: %	> 98
Ash Content DIN 51903: ppm	< 2
Density (Graphite only - without insert): lb/ft3	62.4
SS 316L Insert: inch	0.015
Compressibility ASTM F36A: %	40
Recovery ASTM F36A: %	22
Creep Relaxation @ Elevated Temperatures (WSW 300°C/572°F) DIN 28090: %	3.5
Residual Stress DIN 52913 (300°C/572°F): N/mm2	48 MPa
Specific Leak Rate DIN 3535-6: mg/(s*m)	< 0.05

“M & Y” FACTORS

Thickness		“m”	“y”
in	mm	(no units)	psi
1/16	1.6	3.5	2350
1/8	3.2	4.5	3650

NOTES

Flexible Graphite material is not recommended for Glass or Ceramic flanges. When approaching maximum or minimum temperatures, or maximum operating pressure, consult A.R. Thomson Group Inc.

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