



Designed for high and low temperatures and pressures, with improved handling.

HEXA:GRAF® 316W is manufactured from pre-densified foil of 98% pure expanded graphite, mechanically bonded without the use of adhesives or binders. **HEXA:GRAF® 316W** inherently possesses excellent chemical compatibility, allowing it to work with the most aggressive fluids at high temperatures and pressures.

The high compressibility of graphite allows it to easily conform to sealing surfaces, even those with imperfections, and also helps compensate for misalignments without affecting its sealing capacity.

Its thermal resistance allows it to operate in a range of -196°C to +650°C in inert atmospheres, and it can withstand the most aggressive thermal cycles without deterioration.

It features a 0.005" thick 316L wire mesh reinforcement.

Applications:

HEXA:GRAF® 316W is especially recommended for high-temperature and high-pressure applications on all types of flanges. The metal reinforcement makes it suitable for steam service.

Benefits:

- Flame retardant.
- Multipurpose.
- No hazardous fibers.
- Low torque.



**Grafito expandido
De baja oxidación.**

www.hexagraf.mx

TECHNICAL DATA

Properties:	HEXA:GRAF® 316W Sheet
Composition:	98% Expanded Graphite + 316L Wire Mesh Insert
Required Flange Roughness, Ra:	1/16" = 3.2-6.3 μ 1/8" = 3.2-12.5 μ
Density:	68.7 Lb/ft ³
Temperature, Max:	1202.0 °F (inert atm)
Temperature, Min:	-320.8 °F
Temperature, Continuous:	842.0 °F
Pressure, Max:	2030.6 Psi
Compressibility, ASTM F36a:	34 %
Recovery, ASTM F36a:	>32 %
Tensile Strength, ASTM F152:	3625.9 Psi
Stress Relaxation, DIN 52913:	33 Mpa
Sealability, ASTM F37:	<0.22 ml/h
pH Range:	0-14
"M&Y" Values @ 1/8, ASME PVRC:	M: 2.5 Y: 3,000
"M&Y" Values @ 1/16, ASME PVRC:	M: 2.5 Y: 2,500
P x T @ 1/8, Psi x °F:	360000.0 °F x Psi
P x T @ 1/16, Psi x °F:	750000.0 °F x Psi
Thickness Tolerance, ASTM F104:	±10 %
Dimensional tolerance:	±5 %
Thicknesses:	1/32", 1/16", 3/32", 1/8", 3/16" & 1/4"
Dimensions:	39.5"x39.5" (in) 60" x 60" (in)
Chemical Composition:	Sulfur: <700ppm Chlorine: <50 ppm Carbon: >98.5% Ash: <1.4%

**The maximum temperature and pressure limits should not occur simultaneously.

Curva PxT - HEXA:GRAF® 316W

