



**Designed for high and low temperatures and pressures, with improved crush resistance.**

HEXA:GRAF® 316T is manufactured from 98% pure expanded graphite foil of variable density, mechanically bonded without the use of adhesives or binders.

The HEXA:GRAF® 316T style inherently possesses excellent chemical compatibility, allowing it to work with the most aggressive fluids at high temperatures and pressures.

The high compressibility of HEXA:GRAF® 316T 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 -210°C to +650°C in inert atmospheres, and it is capable of withstanding the most aggressive thermal cycles without alteration.

**Applications:**

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

**Benefits:**

- Does not propagate fire
- Multipurpose
- No hazardous fibers
- Low torque

**TECHNICAL DATA**

Properties:	HEXA:GRAF® 316T Sheet
Composition:	98% Expanded Graphite + 316L Tanged Insert
Density:	71.79 Lb/ft3
Temperature, Max:	1,202 °F (inert atm)
Temperature, Min:	-346 °F
Temperature, Continuous:	842 °F
Pressure, Max:	2,031 Psi
Compressibility, ASTM F36a:	30 %
Recovery, ASTM F36a:	>30 %
Tensile Strength, ASTM F152:	3,626 MPa
Stress Relaxation, DIN 52913:	4,786 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:	360,000 °F x Psi
P x T @ 1/16, Psi x °F:	750,000 °F x Psi
Thickness Tolerance, ASTM F104:	±10 %
Dimensional tolerance:	±5 %
Thicknesses:	1/64", 1/32", 1/16", 3/32", 1/8", 3/16" & 1/4"
Dimensions:	39.5"x39.5" (in) 39.5" x 79" (in) 60" x 60" (in)
Chemical Composition:	Sulfur: <700ppm Chlorine: <50 ppm Carbon: >98% Ash: <1.4%

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



**ARM:TECH®**  
**316T**

**Maxima seguridad en gases y alimentos.**

Anillos interiores para una mejor sellabilidad y manejo.

*evita romper las juntas.*



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All the technical information and recommendations given in this document are based on our experiences. However, we do not accept any type of responsibility. The data and values presented should be reviewed by the user, based on the understanding that success in sealing can only be achieved by evaluating all parameters and variables directly at the job site. The parameters in this document are approximate and may have mutual influence if they occur simultaneously; please contact us in critical applications or where there is doubt.

Trusted Sealing Solutions.