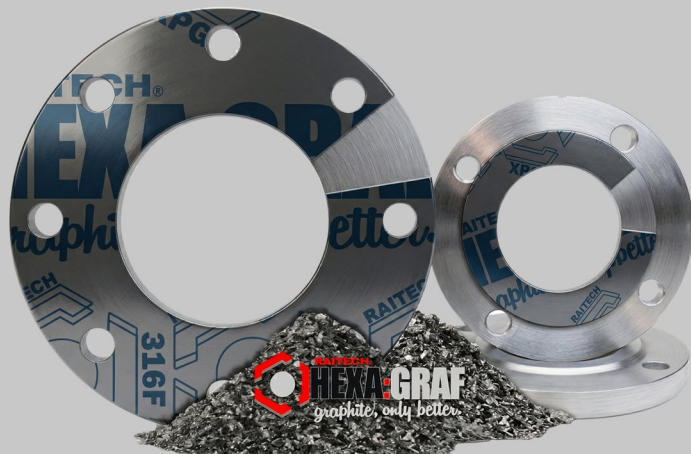




**Designed for high and low temperatures and pressures, with improved handling.**

**HEXA:GRAF® 316F** is manufactured from 98% pure expanded graphite flakes, mechanically bonded without the use of adhesives or binders. **HEXA:GRAF® 316F** 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® 316F** 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 is capable of withstanding the most aggressive thermal cycles without deterioration.

It features a 0.002" thick 316L sheet reinforcement.

### Applications:

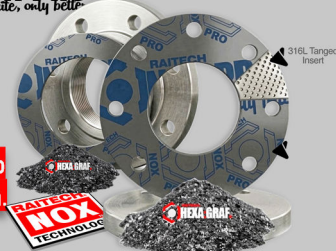
**HEXA:GRAF® 316F** is especially recommended for high-temperature and high-pressure applications on any type of flange. The metal reinforcement makes it suitable for steam service.

### Benefits:

- Non-flame propagating.
- Multipurpose.
- No hazardous fibers.
- Low torque.



**Grafito expandido  
De baja oxidación.**



[www.hexagraf.mx](http://www.hexagraf.mx)

## TECHNICAL DATA

|                                 |                                                                    |
|---------------------------------|--------------------------------------------------------------------|
| Properties:                     | HEXA:GRAF® 316F Sheet                                              |
| Composition:                    | 98% Expanded Graphite + 316L Foil Insert                           |
| Required Flange Roughness, Ra:  | 1/16" = 3.2-6.3<br>1/8" = 3.2-12.5 $\mu$                           |
| Density:                        | 68.7 Lb/ft <sup>3</sup>                                            |
| Temperature, Max:               | 1202.0 °F (inert atm)                                              |
| Temperature, Min:               | -320.8 °F                                                          |
| Temperature, Continuous:        | 842.0 °F                                                           |
| Pressure, Max:                  | 1885.5 Psi                                                         |
| Compressibility, ASTM F36a:     | 32 %                                                               |
| Recovery, ASTM F36a:            | >25 %                                                              |
| Tensile Strength, ASTM F152:    | 4641.2 Psi                                                         |
| Stress Relaxation, DIN 52913:   | 36 Mpa                                                             |
| Sealability, ASTM F37:          | <0.25 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)<br>39.5" x 79" (in)<br>60" x 60" (in)             |
| Chemical Composition:           | Sulfur: <700ppm<br>Chlorine: <50 ppm<br>Carbon: >98%<br>Ash: <1.4% |

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

### Curva PxT - HEXA:GRAF® 316F

Espesor: 1.6mm

