

HEXA:GRAF[®]
NOX:PRO[®]
graphite, only better.^{MR}



**Low Oxidation – 316L Reinforced
Expanded Graphite.**



Designed for high temperatures and pressures, with improved crush resistance, featuring NOX™ technology

HEXA:GRAF® NOX:PRO® is manufactured using the new NOX™ technology from expanded pure graphite foil of variable density with a minimum carbon content of 98.5%, mechanically bonded without the use of adhesives or binders. This technology minimizes the natural porosity of the graphite and drastically reduces material oxidation.

The HEXA:GRAF® NOX:PRO® style inherently possesses excellent chemical compatibility, allowing it to work with the most aggressive fluids at high temperatures and pressures. The new NOX™ technology also enables it to operate for longer periods without oxidizing.

The high compressibility of HEXA:GRAF® NOX:PRO® allows it to easily conform to sealing surfaces, even those with imperfections, and compensates 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 showing any alteration.

It features a 0.005" thick perforated 316L steel reinforcement, which allows it to withstand higher working pressures and greater crush resistance.

Applications:

HEXA:GRAF® NOX:PRO® is especially recommended for high-temperature and high-pressure applications on any type of flange. The metallic reinforcement makes it suitable for steam and thermal oil service.

Benefits:

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

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TECHNICAL DATA

| | |
|---------------------------------|--|
| Properties: | NOX:PRO® Sheet |
| Composition: | 98.5% Expanded Graphite + NOX® Technology + 316L Tanged Insert. |
| Required Flange Roughness, Ra: | 1/16" = 3.2-6.3 1/8" = 3.2-12.5 μ |
| Density: | 71.8 Lb/ft3 |
| Temperature, Max: | 1202.0 °F (inert atm) |
| Temperature, Min: | -320.8 °F |
| Temperature, Continuous: | 977.0 °F |
| Pressure, Max: | 2320.6 Psi |
| Perdida de peso, (TGA @670°C): | <3.75 % / hr |
| Compressibility, ASTM F36a: | 30 % |
| Recovery, ASTM F36a: | >33 % |
| Tensile Strength, ASTM F152: | 3625.9 Psi |
| Stress Relaxation, DIN 52913: | 33 Mpa |
| Sealability, ASTM F37: | <0.17 ml/h |
| pH Range: | 0-14 |
| "M&Y" Values @ 1/8, ASME PVRC: | M: 2.5 Y: 3000 |
| "M&Y" Values @ 1/16, ASME PVRC: | M: 2.5 Y: 2500 |
| 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: | 1/16", 1/8", 3/16" & 1/4" |
| Dimensions: | 39.5"x39.5" (in) 39.5" x 79" (in) 60" x 60" (in) |
| Chemical Composition: | Sulfur: <500ppm Chlorine: <50 ppm Carbon: >98% Ash: <1.4% |

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

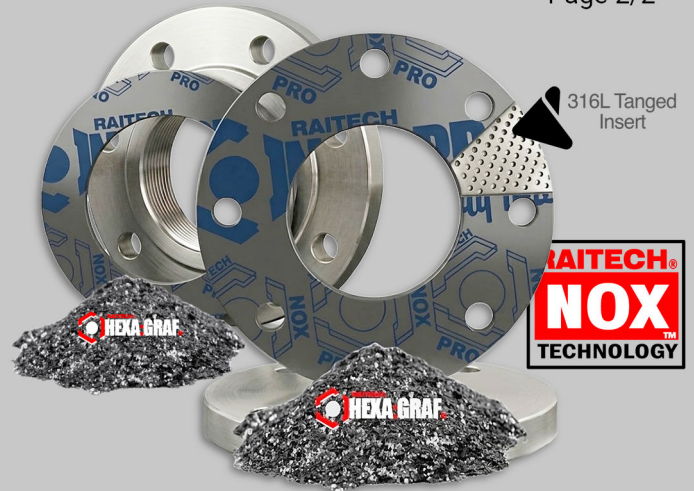


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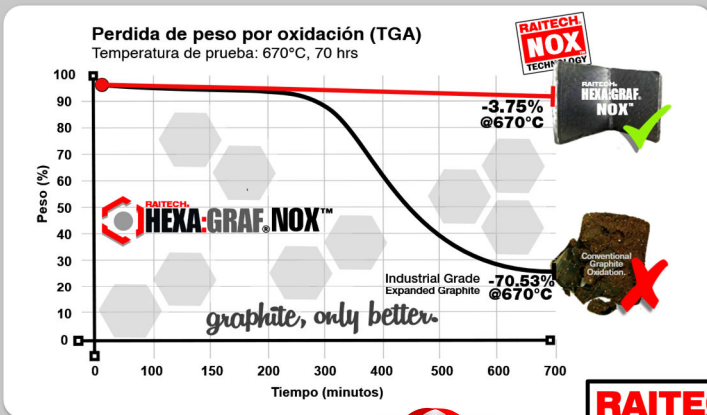


**NEW! 316L tanged
 core configuration**

A new geometry of the perforated structure of the insert helps it to better sealability and recovery, due to its more energized insert than other materials on the market.



RAITECH® NOX™ TECNOLOGÍA



Material Profile: **Graphite 98.5% with NOX™ technology**



Unlike PTFE or rubber gaskets, our NOX:PRO® graphite does not suffer from cold creep and its extraordinary hot recovery greater than steel makes it the ideal gasket for critical applications.

This completely eliminates the need for and labor cost of fastening routines after commissioning.

Reduced Porosity.

Less porosity
 Less Oxidation.

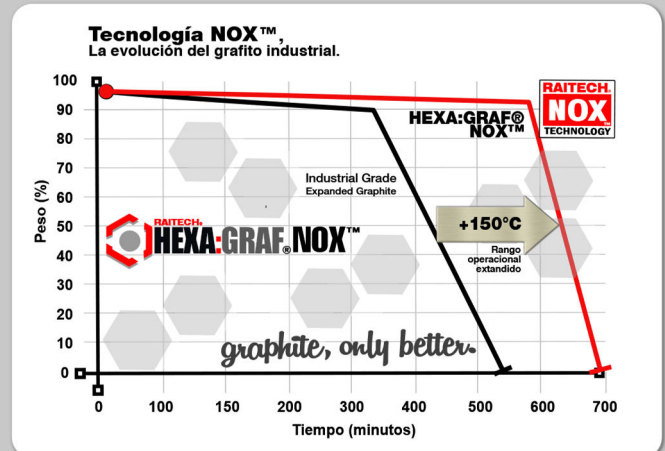


RAITECH® NOX™ technology allows materials made with it to be more resistant to natural oxidation caused by high temperatures in the carbon content that is stuck in the structures of graphite.

With our NOX™ technology we have minimized the natural porosity of graphite by using additives that coat the carbon molecules, thus minimizing their oxidation compared to common graphites on the market.

This translates into greater safety and more time in the application, thus reducing costs and increasing production.

NOX™ Tecnología extended range.



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