RAITECH® HEXA:GRAF® NOX RS

GFA GASKET FABRICATORS ASSOCIATION

EN FAVOR DE LA COMPETITIVIDAD NO Corrupción

Data Sheet.

The low-oxidation spiral wound gasket for high temperatures.

The **HEXAGRAF® NOX RS** style is a spiral wound gasket composed of a 316L stainless steel winding (other alloys available upon request) and **HEXAGRAF® NOX** expanded graphite sealing material. Thanks to our **NOX** technology, the graphite is more resistant to oxidation. Additionally, it features an outer centering ring made of 316L stainless steel (other alloys available upon request), which is also used to ensure calibrated compression. It is ideal for use in raised face flanges, flat face flanges, or circular flange joints.

The **HEXAGRAF® NOX RS** style has a nominal thickness of 0.175", designed for an optimal compression of 0.130".

RAITHERM® HEXAGRAF® NOX RS gaskets are manufactured under the **UNI-BODY** concept, where all metallic components are made of the same material.

The outer ring facilitates gasket centering, provides additional radial strength, helps prevent misalignment, and serves as a reference point to determine the necessary compression during stud installation.

Note: According to **ASME B16.20** standards, the use of **RSI** type gaskets (with an inner ring) is recommended, unless the client specifies otherwise.

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Gasket profile:

Other available alloys:

Metal	Rango de Temperatura		Abreviación
304ss	-195°C	+760°C	304
316L	-195°C	+760°C	316L
317L	-195°C	+760°C	317L
321	-195°C	+760°C	321
347	-195°C	+925°C	347
Acero al carbón	-40°C	+540°C	CS
Alloy 20	-185°C	+760°C	A20
Hastelloy® B2	-185°C	+1,090°C	HASTB
Hastelloy® C276	-185°C	+1,090°C	HASTC
Incoloy® 800	-100°C	+870°C	IN800
Incoloy® 825	-100°C	+870°C	IN825
Inconel® 600	-100°C	+1,090°C	INC600
Inconel® 625	-100°C	+1,090°C	INC625
Inconel® X750	-100°C	+1,090°C	INX
Monel® 400	-130°C	+820°C	MON
Nickel 200	-195°C	+760°C	NI
Titanio	-195°C	+1,090°C	TI

Technical Data:

Properties:	Value
Temperature, Max:	+1,202°C (in steam), +1,022°F
Temperature, Min:	-319°F
Pressure, Max:	6,300 Psi
Flange types:	Raised face (RF) Full face (FF)
Flange surface finish (Ra):	3.2-6.3µ (125-250 µ")

How to order: graphite, only better.MR

Sealing material: HEXAGRAF® NOX
Gasket type: RS
Inner ring material: ----
Winding material: 316L*
Outer ring: 316L*
Diameter: 2"
Class: 150#, 300#, 400#, 600#, 900#, 1500#, 2500#

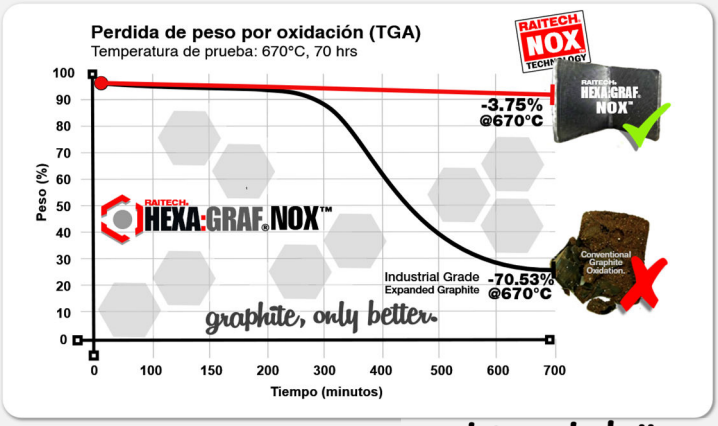
* All HEXAGRAF NOX RS gaskets comes in 316L as standar, other materials under request.

SAFETY FIRST

Nunca reutilice ningún tipo de junta, evite accidentes.

www.hexagraf.mx

RAITECH® NOX™ Technology.



graphite, only better.MR

Our **RAITECH® NOX™** technology allows materials manufactured with it to better resist the natural oxidation caused by high temperatures in the carbon content found bonded within the amorphous structures of the graphite.

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

This translates into greater safety and longer application life, thus reducing costs and increasing production.

HEXA:GRAF® NOX™ advantages:

Outstanding Sealing Properties
- Low permeability to gases and liquids.
- No cold or hot flow (deformation) up to the maximum permissible gasket pressure.
- Smooth performance in response to temperature changes.

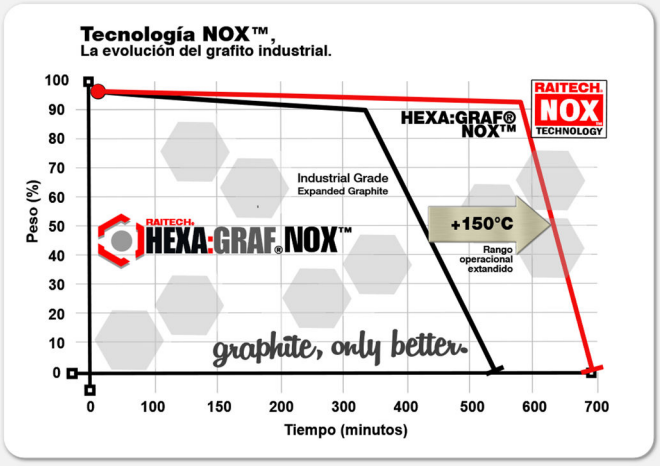
Stability
- High resistance to chemical media and radiation.
- Absence of binders means no aging or embrittlement.
- High residual stress.
- Long-term stability in compressibility and recovery over a wide temperature range.

Application Range
- From -269 °C (-452 °F) up to approx. 3000 °C (5432 °F):
- Depending on installation and operating conditions.
- Up to approx. 800 °C (1472 °F) in an inert atmosphere (limits imposed by metallic reinforcement must be observed).
- In air: from approx. 400 °C (752 °F) to 600 °C (1112 °F).

User Benefits
- Flexibility and softness.
- No health or environmental risks.

**We are glad to provide specific recommendations.*

NOX™ Technology extended range.



RAITECH® NOX™ Technology.

This technology allows the materials manufactured with it to better resist the natural oxidation caused by high temperatures in the carbon content present within the amorphous structures of the graphite.

Thanks to our **NOX™** technology, we have minimized the natural porosity of the graphite by using additives that coat the carbon molecules, thereby reducing their oxidation compared to common graphites on the market. This translates into greater safety and a longer service life in the application, helping to reduce costs and increase productivity.

RAITECH® lo hicimos facil pensando en ti.

Important Notes:

Spiral wound gaskets are delicate materials, especially in larger diameters. Never carry the gaskets by the inner rings or the spiral.

Recommendations:

1-. Never reuse any type of sealing gaskets; this is for your safety.
2-. You must only use standard-compliant gaskets and never use non-standard gaskets.
3-. Large dimension spiral wound gaskets are prone to unraveling due to the flexibility of the metal at such diameters.
4-. Spiral wound gaskets must have perfectly flat rings for proper operation.
5-. Ensure that the spiral wound gaskets to be used comply with the thicknesses of the applicable standard or specification.
6-. For proper operation, the flange surfaces must be in perfect condition, complying with a concentric surface finish between 3.2-6.3µ. Likewise, the flanges must be perfectly aligned and parallel.

Storage:

1-. Store the gaskets in a dry place at room temperature.
2-. If the gaskets are exposed to greases, oils, or solvents, clean them before use.
3-. Protect the sealing faces to prevent damage.
4-. Store the gaskets horizontally to avoid tension in spiral wound gaskets.

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