

# Topog-E<sup>®</sup> NAM45 Gaskets



Certificate No.  
17/00007

## MATERIAL COMPOSITION AND APPLICATION

It has excellent resistance to steam and strong alkaline media. It is widely used in the chemical and petrochemical industries. **Topog-E<sup>®</sup> NAM45** exhibits good sealing and torque retention properties. It is specifically designed to satisfy the growing demand for numerous aggressive chemicals used by industry today. **Topog-E<sup>®</sup> NAM45** can also be used for sealing oils, fuels, gases, freons, and general application in paper & pulp industry for application in pipelines, radiators, boilers and many other instances of flanged joints.

PROPERTIES (Test Specimen Thickness 2.0mm)	TEST METHOD	UNIT	SPECIFIED VALUE
<b>Density</b>	---	gm/cm <sup>3</sup>	1.70 - 2.00
<b>Tensile Strength</b>			
(a) ACC to ASTM F152 (Across Grain)	---	N / mm <sup>2</sup>	> 8
(b) ACC to DIN52910 (Across Grain)		N / mm <sup>2</sup>	---
<b>Compressibility</b>	ASTM F36A	%	5 - 15
<b>Recovery</b>	ASTM F36A	%	> 50
<b>Fluid Absorption</b>			
(a) In ASTM Oil No. 3	ASTM F 146		
INCREASE in Mass		%	< 10
INCREASE in Thickness		%	< 8
(b) In Fuel B	ASTM F 146		
INCREASE in Mass		%	< 10
INCREASE in Thickness		%	< 7
(c) In Water/Antifreeze	ASTM F 146		
INCREASE in Mass		%	< 10
INCREASE in Thickness		cm <sup>3</sup> / min.	< 7
<b>Ignition Loss</b>	DIN 52911	N / mm <sup>2</sup>	< 30
<b>Sealability Against Nitrogen</b>	DIN 3535	N / mm <sup>2</sup>	< 0.5
<b>Stress Resistance</b>			
16h 300°C	DIN 52913		~20
16h 175°C	DIN 52913		~30

The following information applies to material thickness 2.0mm. The information provided on this bulletin was provided by the manufacturer Ferolite Jointings LTD. Since actual conditions of use are beyond our control, the information provided only serves as a guideline. Users must satisfy themselves that the product is suitable for the intended application. We reserve the right to change product design and properties without notice.

## SERVICE SUMMARY

**Peak Temperature:** 752°F (400°C)  
**Continuous Temperature:** 572°F (300°C)  
**Continuous Temperature with Steam:**  
 536°F (280°C)

**Operating Pressure:** 2133.5 PSI  
 (150 Kg / cm<sup>3</sup>)

## SIZE & COLOR

**Sheets:** 60" x 60" and 60" x 120" in thickness of 1/64" to 1/4"  
**Gaskets:** Raised Face, Full Face and Specials  
**Color:** Black / Graphite Coating

## MATERIAL

**Material Composition:** Blend of Carbon and Aramid Fiber  
**Binders:** NBR



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All information in this data sheet is based on data believed to be reliable; however, we make no guarantee or warranty of the performance of Topog-E<sup>®</sup> NAM45 gaskets. Due to numerous application-specific factors that can influence service life, it is always advisable to first test Topog-E<sup>®</sup> NAM45 gaskets in a particular application to determine their ultimate suitability.