

WaterSIL

NSF 61 certified gasket material for water systems

Specially formulated compressed gasket material based on NBR and aramid fiber, WaterSIL is a universal high-pressure gasket material that is certified to NSF 61 and meets strict chemical leaching requirements.

Applications: NSF/NNSI 61 certified gasket material for use in potable drinking water systems and fixtures for public drinking water, food and beverage, hospitality and plumbing



BENEFITS OF PRODUCTS CERTIFIED TO NSF/ANSI 61 DRINKING WATER SYSTEM COMPONENTS

Potable water systems have miles of piping and other devices such as pumps, meters and valves. All of these components require gaskets. Gasket materials certified to NSF/ANSI 61 ensure the safe passing of water on its journey to the consumer's tap.

NSF/ANSI 61 establishes minimum health effect requirements for the chemical contaminants and impurities that are directly imparted to drinking water systems. It also determines what contaminants may migrate or leach into drinking water and confirms that they are below the maximum levels allowed to be considered safe. Market leaders strive to attain NSF certification as a mark of distinction that assures their product does not leach harmful contaminants or impurities into drinking water.

Certification to NSF/ANSI 61 ensures that the product meets the Safe Drinking Water Act requirements that protect public drinking water supplies in the US. NSF/ANSI 61 certification can often meet or fulfill the testing requirements for many other countries as well.

WaterSIL is specifically formulated to meet the NSF/ANSI 61 standard for sealing materials. It also has excellent dielectric strength properties. The dielectric strength is the maximum working voltage a material can withstand without breaking down, thus limiting corrosion in pipeline systems.

Look for the WaterSIL logo and NSF mark on the packaging to ensure your gasket material complies with NSF/ANSI 61 – Drinking Water System Components – Health Effects.

WaterSIL

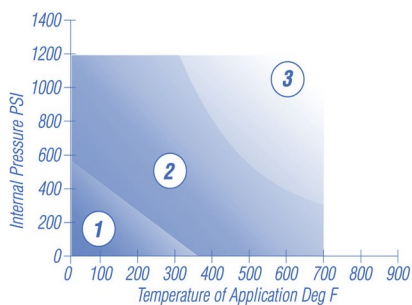
TYPICAL VALUES REFER TO 1/16" THICK MATERIAL UNLESS NOTED

Compressibility ASTM F36 J	10 %
Recovery ASTM F36 J	50 % min
Dielectric Strength ASTM D149-95a	18 kV/mm
KLINGER cold/hot Compression	
Thickness Decrease at 73°F (23°C)	10 % initial
Thickness Decrease 572° (300°C)	25 % additional
Density ASTM F1315	100 lb/ft ³
Creep Relaxation ASTM F38 B (1/32")	25 %
Sealability ASTM F37 A (1/32")	< 0.25ml/hr
Thickness Increase ASTM F146 after immersion in H ₂ O	0 % - 5 %
Weight Increase ASTM F146 after immersion in H ₂ O	0 % - 5 %
ASTM F104 Line Call Out	F712111B4E12K6M4
NSF/ANSI 61 Certification	Potable Water at Commercial
For Pipe Gasket Sizes 1" to 144" or 1.3 sq. inch per liter in other	Hot 180°F (82°C) Max
Color and Markings	White Unbranded

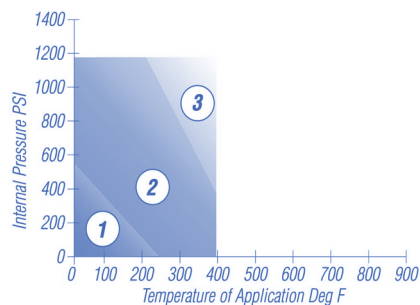
The pressure/temperature graphs shown are the most current method of determining the suitability of a gasket material in a known environment. However, chemical compatibility must also be considered.

pT diagram for thickness 1/16":

LIQUIDS



GASES & STEAM



In area ① the gasket material is suitable using common installation practices subject to chemical compatibility.

In area ② appropriate measures are necessary for installation of the gasket to ensure maximum performance. Please call or refer to KLINGERexpert for assistance.

In area ③ do not install gaskets in these applications without first referring to KLINGERexpert or contacting KLINGER's technical support service.

The ability of a gasket to make and maintain a seal depends not only on the style and quality of the gasket material, but also on medium being sealed, the flange design, the amount of pressure applied to the gasket by the bolts and how the gasket is assembled onto the flanges and tightened. These factors are beyond the manufacturer's control.

KLINGER Thermoseal

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