

Topog-E® Spiral-Max Gaskets

MATERIAL COMPOSITION AND APPLICATION

Topog-E® Spiral-Max gaskets can be made from a wide variety of profiled alloy containment strips combined with specified sealing composites. Following ASME B16.20 code, the strips are wound around a mandrel specific to the finished gaskets internal dimensions. The gasket's inside diameter contains, at a minimum, three plies of preformed metal strip without the sealing composite and is spot-welded at least three times at a distance no greater than 3" apart around the inner circumference. The sealing material, also in strip form, is introduced and wound together with the profiled alloy to achieve the total width of the gasket. The external layers, up to three plies, are spot-welded circumferentially with a minimum of three welds.

Designed to achieve an effective seal under the most demanding operating conditions, the **Topog-E® Spiral-Max** profile is engineered to provide recovery in applications where the load on the gasket may vary due to major temperature fluctuations. While there is not a published standard for the construction of hand-hole and manhole spiral wound gaskets, the industry often categorizes them into pressure ratings 0-999 PSI and greater than 1,000 PSI. The difference between these two designations is the thickness of the sealing composite. A thicker sealing composite results in a lower content of containment strip. Inversely, a thinner sealing composite allows for an increased content of containment strip. The higher the alloy content, the more pressure the gasket can withstand.

Topog-E® Spiral-Max ideal applications:

- Steam pressure vessels
- Hot water heaters
- De-mineralizers
- Steam humidifiers
- Water purifiers
- Refrigeration units
- Filtering units
- Liquid treatment vessels
- Compressed air tanks
- Dryer cans in paper mills
- Water towers
- Water softeners
- De-aerators
- Make-up tanks

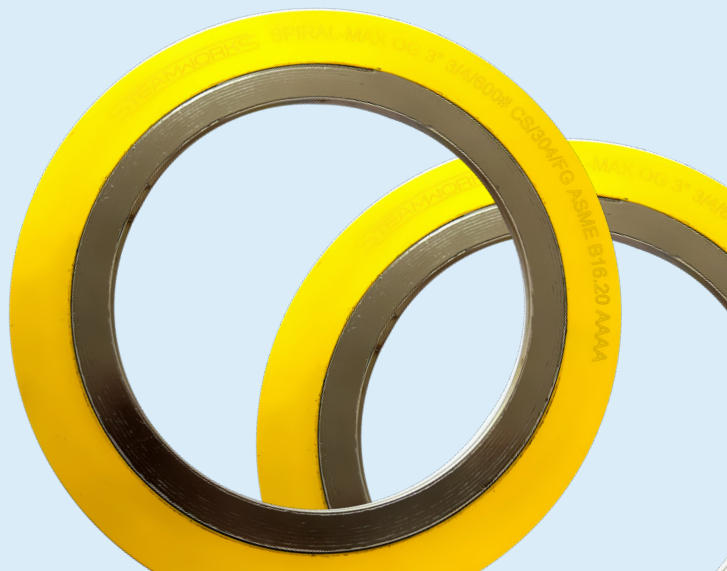
TEMPERATURE

Maximum temperature (filler):

850°F (454°C) Inhibited graphite
975°F (524°C) APX2 graphite
500°F (260°C) PTFE
1800°F (982°C) Mica
1500°F (815°C) Mica/APX2/ Mica
2000°F (1093°C) Ceramic

Maximum temperature (alloys):

1400°F (760°C) 304/304L SS
1400°F (760°C) 316 SS
1400°F (760°C) 316L SS
1500°F (815°C) 321 SS
1500°F (815°C) 347 SS
1500°F (815°C) Monel
2000°F (1093°C) Inconel 600
900°F (482°C) Carbon steel



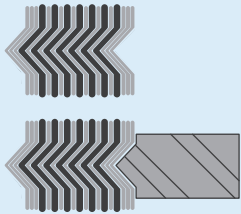
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All information in this data sheet is based on data believed to be reliable; however, we make no guarantee or warranty of the performance of Topog-E® Spiral-Max gaskets. Due to numerous application-specific factors that can influence service life,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

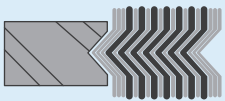
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PRODUCT RANGE

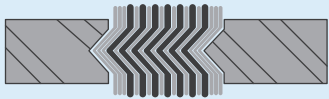
G, OG and OGI Spiral wound gaskets are wound with a “V” section profiled metal strip along with a soft filler material. The “V” section metal strip ensures the gasket has excellent compressibility and recovery under various applications. The soft filler material ensures sealability against the flange face, offering optimum performance. They can be produced in a wide range of sizes, thickness and material combination to suit the application.



Style G – GI is a spiral wound gasket that is fabricated by utilizing the metal wire along with soft non-metallic filler. Suitable for tongue and groove, male and female, or grooved to flat face flange assemblies, also available with pass bars



Style OG are comprised of the metal wire with designated filler incorporating the use of a solid metal outer ring. The outer guide ring promotes the correct centering of the gasket in a standard flange, offers radial support for the outer portion of the spiral wound, and acts as compression gauge to prevent over compression of the spiral wound.



Style OGI- are same as our Style OG with the only difference being an additional inner ring. Just like the outer ring, the inner ring serves multiple functions including radial support for the inner portion of the spiral wound, prevents inward buckling and helps to provide uniform gasket stress.



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