

# Topog-E® Series 1000 Gaskets

## MAXIMIZE SEALING WITH THE SPIRAL EFFECT

**Topog-E® S-1000** 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® S-1000** 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 man-hole 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® Series 1000 service summary:

**Temperature**, -400°F (-240°C) to 850°F (+454°C) in atmosphere, +1200°F (+650°C) in steam

**pH range**, 0-14

**Compressibility %**, 18 to 30

**Recovery**, ≥ 17

**Leak rate cm<sup>3</sup>/s**, ≤ 1.0 x 10<sup>-3</sup>

## SIZE, SHAPES & MATERIALS

**Topog-E® S-1000** are available in most common sizes and shapes.

Shapes include - circle, elliptical, ob-round, pear and diamond shapes. Standard thickness of 3/16" or 1/4".

Common composite selections:

304SS w/ Graphite

304SS w/ PTFE

316SS w/ Graphite

316SS w/ PTFE

Other composites are available upon request.

## ORDERING

Please either contact your local distributor for **Topog-E® Series 1000** gaskets or contact Topog-E® directly for details of your nearest distributor.

## 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



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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® Series 1000 gaskets. Due to numerous application-specific factors that can influence service life, it is always advisable to first test Topog-E® Series 1000 gaskets in a particular application to determine their ultimate suitability.