

Topog-E® Series 180 Gaskets

MATERIAL COMPOSITION AND APPLICATION

The steam boiler market makes extreme demands on gaskets; Topog-E® molded rubber gaskets are specifically formulated to meet and exceed these demands and deliver industry standard performance.

Topog-E® Series 180 gaskets have been refined through a series of over 600 research formulation tests to ensure that they are able to meet the exacting performance standards of the steam boiler industry.

Topog-E® Series 180 gasket advantages:

Conform to the topography of the mating surfaces

Withstand a boiler's full, continuous and cycling operating pressures

Withstand continuous exposure to water treatment chemicals

Withstand continuous exposure to ion and oxygen attack in hot air

Prevent all leakage

Replace easily, without chiseling or buffing

MATERIAL DESCRIPTION

Special proprietary rubber composition, black, 80-85 durometer

SIZES

Topog-E® Series 180 gaskets are available in 350 stock sizes and shapes. Custom shapes, sizes and sheet material are available on request.

ORDERING

Please either contact your local distributor for **Topog-E® Series 180** gaskets or contact Topog-E® directly for details of your nearest distributor.

SERVICE SUMMARY

Steam boilers

Temperature: up to 380°F (193°C)

Pressure: 180 psig (12 bar)

Water, condensate, etc. vessels

Temperature: less than 300°F (150°C)

Pressure: 200+ psig (14 bar)



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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 180 gaskets. Due to numerous application-specific factors that can influence service life, it is always advisable to first test Topog-E® Series 180 gaskets in a particular application to determine their ultimate suitability.

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APPLICATIONS

When used on steam pressure vessels **Topog-E® Series 180** gaskets are typically used at operating pressures of up to 180 PSI (12 bar) and saturated steam temperatures up to 380° F. (193° C) for an average service life of one year. When used in other applications (e.g. condensate, water, and air vessels) **Topog-E® Series 180** gaskets are sometimes used at pressures above 200 PSI (14 bar) where temperatures are typically more moderate (e.g. below 250°F./121°C.). When operating under less severe conditions (e.g. water applications at ambient temperatures) **Topog-E® Series 180** gaskets can provide very long service lives.

Topog-E® Series 180 gaskets have been used successfully around the world for over forty years. In general, any type of industrial pressure vessel or tank that has inspection openings is a potential application where **Topog-E® Series 180** gaskets can be used as a cost effective sealing device. In addition to using them in steam pressure vessels, customers also use Topog-E® molded gaskets and sheet material with great success in many other applications, including:

- Water softeners
- Hot water heaters
- Steam humidifiers and cookers
- Water purifiers and demineralizers
- Refrigeration units
- Liquid treatment vessels
- Carbon absorption and filtering vessels
- Dryer cans in paper mills
- Water hydrants
- Mixing tanks
- Compressed air tanks
- Various types of dryers
- Air starters and receivers
- Deaerators
- Hatch covers
- Water towers and columns
- PVC reactor vessels

INSTALLATION ENVIRONMENT & SUITABILITY

Topog-E® Series 180 gaskets are specifically formulated to have excellent resistance to steam and hot and cold water. They also have great resistance to:

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|-----------------------------|-----------------------------|
| ■ Alcohols | ■ Selected refrigerants |
| ■ Ketones | ■ Ammonia |
| ■ Phosphate esters | ■ Salts |
| ■ Silicone oils and greases | ■ Glycols |
| ■ Dilute acids and bases | ■ Animal and Vegetable fats |

Water treatment chemicals, when used in accordance with supplier's guidelines, should not have a significant effect on the service life of properly installed **Topog-E® Series 180** gaskets. **Topog-E® Series 180** gaskets are not recommended for use in applications where they see direct exposure to high concentrations of aromatic hydrocarbons, chlorinated solvents, or petroleum based oils, fuels, and lubricants.



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