

Topog-E® Series 2000 gaskets

They're what your *high pressure boiler* would choose...

The steam boiler market makes extreme demands on gaskets; Topog-E® **Series 2000** gaskets are specifically designed and fabricated to provide the superior performance users of Topog-E® gaskets have come to expect – but at higher operating pressures and temperatures. These branded, engineered gaskets provide a cost-effective, reliable, and easy to use alternative to tacky-cloth, spiral wound and expanded PTFE gaskets.

MATERIAL DESCRIPTION

REINFORCED EXFOLIATED
GRAPHITE FOIL

SERVICE SUMMARY

Steam boilers: to 2,000 psi (138 bar)
and 1,200° F (650° C)



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APPLICATIONS

Topog-E® **Series 2000** gaskets can be used as a cost-effective sealing alternative in most types of higher pressure industrial vessels and tanks that have inspection openings. The proprietary graphite used to manufacture these gaskets gives them exceptional thermal stability combined with chemical inertness, ensuring superior service capability under simultaneous conditions of saturated and superheated steam. They provide boiler manufacturers, users and service companies handhole and manhole gaskets with unprecedented characteristics.

ADVANTAGES

Compared to spiral wound gaskets, Topog-E® **Series 2000** gaskets are compressible enough to conform to the topography of the mating surfaces – even on old worn and pitted flanges – with less torque. Their recovery characteristics are also superior to spiral wound gaskets and they are significantly lighter than spiral wound products. Topog-E® **Series 2000** gaskets are easy to remove and replace with no chiseling or buffing required. Sizes are clearly marked on each gasket for easier identification.

MATERIAL

Made from multiple layers of exfoliated graphite foil and reinforced with 316 stainless steel foil for added stability. Standard gasket thickness is 0.25" (6 mm).

SERVICE

Temperature: up to 1,200° F (+650° C) in steam
up to 850° F (+454° C) in atmosphere

Pressure (typical): 250 – 2,000 psi (17 – 138 bar)

TORQUE SPECS

$P \times T \text{ (max)} = 175,000 \text{ (6,000) } \frac{1}{4}''$

M Factor = 2 (smooth sealing surface)

Y Stress = 900 psi (6 MPa) (smooth sealing surface)

Max Gasket Load = 24,000 psi (165 MPa)

SIZES

Topog-E® Series 2000 gaskets are available in all standard sizes and shapes. Custom sizes and shapes can be made with short lead times and minimal setup charges.

ORDERING

Please either contact your local distributor for **Topog-E® Series 2000** gaskets or contact Topog-E Gasket Company directly for details of your nearest distributor.

DISCLAIMER

All information in this data sheet is based on data believed to be reliable, however we make no guarantee or warranty of performance of **Topog-E® Series 2000** gaskets. Because there are many application-specific factors that can affect service life it is always advisable to first test **Topog-E® Series 2000** gaskets in a particular application to determine their ultimate suitability.



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INSTALLATION INSTRUCTIONS

1. Remove old gasket and **thoroughly** clean the surface on boiler shell/weld ring and cover plate. Wire brushing may be required.
2. Place Topog-E® Series 2000 Gasket on cover plate. Ensure the gasket is pushed down flat on the plate. **Do not use any grease or lubricant.** A spray adhesive such as 3M-M77 may be lightly applied to the sealing surface of the cover plate prior to placing gasket on to help hold the gasket in place.
3. After cover plate is in the boiler and the gasket is in place, make one last cleaning swipe on the mating surface in the boiler. Use a clean rag wrapped around your finger.
4. Set crab, then center plate in opening and tighten nut enough to give a snug fit. Then, tighten nut 1 full turn.

Note: Should gasket leak while pressure is building up, tighten only enough to stop leakage.

As pressure builds the bolt and crab may loosen. It takes time for the gasket to reach its final compression, so the operator should watch this for several days and keep the nut tight until it no longer loosens. This is especially true if the boiler undergoes thermal cycling.

Torque Specs:

$P \times T \text{ (max)} = 175,000 \text{ (6,000)} \frac{1}{4}''$

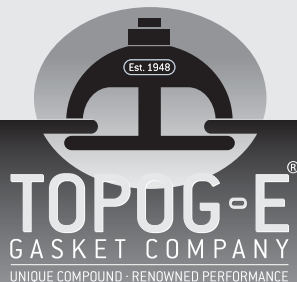
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