

NON-Metallic Other Products

CORK

Cork grains and rubber is bound to obtain cork compressibility, with the benefits of synthetic rubber. Largely used when the seating force is limited, as in flanges made out of thin stamped metallic sheets or fragile materials such as ceramic or glass. Recommended for service with water, lubricant oils and other oil derivative products at pressures up to 50 psi (3.5 bar). It offers little resistance to aging and is not recommended for service with inorganic acids, alkali or oxidant solutions. Temperature limits: -20° F (C) to 250° F (120° C).

FABRIC AND TAPES

Gaskets can be made of Asbestos, Silica, Fiberglass, Ceramic or Aramid fabrics impregnated with Elastomers like SBR, Chloroprene, Fluorelastomer or Silicone. To improve the mechanical resistance the fabric may be reinforced with metallic wire. Fabrics are folded and molded to form the gaskets. These gaskets are used mainly for boiler manholes and handholes, oven doors and large ducting access panels. They can be circular, oval, square or any other form. Its thickness can be from 10.8 mm (1/32") to 3.2 mm (1/8"). Greater thickness can be obtained by folding layers.

TADPOLE

Fabrics can be rolled around a core as shown in Figure 3.2. The fabrics can be impregnated with Elastomers. The fabric overlaps the core, forming a flat lip in which holes for bolts can be cut. The circular section offers a reliable sealing for irregular surfaces subject to frequent opening and closing, such as oven doors and large ducting access panels.

CERAMIC FIBER BLANKETS

In the form of blankets it is used to manufacture gaskets for use in hot gases and low pressure service. This material is also used as filler for metallic gaskets. Temperature limit: 2190° F (1200° C).

CERAMIC FIBER MILLBOARD

Millboards, originally designed as a thermal insulation material, can be cut into gaskets for low pressure, high temperature ducting systems. Temperature limit: 1450 F (800° C).

BEATER-ADDITION

The Beater Addition process (BA) used in the manufacture of gasket materials is similar to the one used in paper manufacture. Synthetic, organic or mineral fibers are beaten with binders which "open" them, providing a large contact area with the binders. This enlarged area of contact increases the mechanical resistance of the product. Several binders can be used such as Nitrile Latex and SBR rubber. Due to its limited pressure and temperature resistance BA materials are used mainly as fillers for metallic gaskets. The most common application is the Mica-Graphite filler for low temperature Spiral Wound gaskets. Materials produced by the BA process are available in reels up to 48" (1200 mm) wide with 0.012" (0.30 mm) to 1/16" (1.6 mm) thick.

Properties and application parameters shown throughout this datasheet are typical. Your specific application should not be undertaken without independent study and evaluation for suitability. For specific application recommendations consult TEADIT. Failure to select proper sealing products could result in property damage and/or serious personal injury. Specifications are subject to change without notice. This edition supersedes all previous issues.