

DURLON[®] 9000/9000N

Inorganic Filler with Pure PTFE Resins
FILLED PTFE GASKET MATERIAL
ASTM F104: F452111-A9B5E11K6M6

APPLICATION:

DURLON[®] 9000/9000N is used extensively in chemical, pulp and paper, food and beverage and the railroad tankcar industries. It has been tested and approved for liquid chlorine, caustics, liquid oxygen, and high purity applications in the pharmaceutical industry (9000N, blood components manufacturing). DURLON[®] 9000 and 9000N are designed for applications where resistance to highly aggressive chemicals is required. Available in unpigmented white as style 9000N. Both styles 9000 and 9000N, (including branding) conform to FDA requirements.

DRY CHLORINE/CAUSTICS: DURLON 9000 has been proven through the "Test Protocol" of the Chlorine Institute and is listed as an [acceptable](#) gasket material for [Dry Chlorine service \(both liquid and gaseous\)](#) in [Pamphlet 95, Edition 3 of the Chlorine Institute](#). DURLON 9000 was independently tested and [approved for Caustics service](#) by a major caustic/chlorine chemical manufacturer. Additionally, our own in-house testing in 50% caustics coupled with independent analysis (TGA, IR) showed DURLON 9000 to be unaffected. Unlike generic glass fiber filled PTFEs, the shape of the fillers used in DURLON 9000 do not allow wicking which could either degrade the gasket or cause corrosion on flange faces.

OXYGEN: DURLON 9000/9000N has been [independently tested and certified by the Federal Institute for Research and Testing, Berlin \(BAM\)](#) for [gaseous oxygen](#) at pressures up to 585 psi (40 bar) and temperatures up to 392°F (200°C), and for service in [liquid oxygen](#). Gaskets for oxygen service can be supplied from distributor stocks, providing proper cleaning procedures for oxygen service are followed before installation.

Note: As a class, [PTFE gasket materials are not recommended in liquid oxygen services where there is THERMAL CYCLING](#) due to thermal shock and the difference of the coefficient of expansion between PTFE and metal flanges and bolting.

COMPOSITION:

Various shapes of inorganic fillers have been homogeneously blended with pure PTFE resins to give DURLON[®] 9000 its physical and mechanical properties. It is suitable for use in steel flanges and will not exhibit the cold flow problems associated with virgin PTFE or the hardness problems of some other filled PTFE products. It cuts easily and separates cleanly from flanges after use.

DURLON[®] 9200W

Barium Sulfate Filler with Pure PTFE Resins
FILLED PTFE GASKET MATERIAL
ASTM F104: F452111-A9B5E11K6M6

APPLICATION:

DURLON[®] 9200W is a filled PTFE gasket material designed for use in aggressive chemicals. Including caustics, hydrogen peroxide, sodium hypochlorite, nitric acid, liquors and digester in pulp and paper service. Applications in the chemical, pharmaceutical and plastics industries include butadiene, hydrofluoric acid, vinyl chloride, methyl methacrylates, and styrene. It is also used extensively in [railroad tankcar](#) applications and can be used where resistance to highly aggressive chemicals is required.

DURLON[®] 9200W is also used for hydrofluoric acid service at moderate concentrations and temperatures or where a barium sulfate filled PTFE gasket material is specified within a temperature range of -350°F to 520°F (-212°C to 271°C), or with pressure up to 1500 psi (10.3 MPa). Style 9200W (granite white, branded) conforms to FDA requirements.

OXYGEN: DURLON[®] 9200W has been [independently tested and certified by the Federal Institute for Research and Testing, Berlin \(BAM\)](#) for [gaseous oxygen](#) at pressures up to 585 psi (40 bar) and temperatures up to 392°F

(200°C), and for service in [liquid oxygen](#). Gaskets for oxygen service can be supplied from distributor stocks, providing proper cleaning procedures for oxygen service are followed before installation.

Note: that as a class, [PTFE gasket materials are not recommended in liquid oxygen services where there is THERMAL CYCLING](#) due to thermal shock and the difference of the coefficient of expansion between PTFE and steel.

COMPOSITION:

Barium sulfate fillers are homogeneously blended with pure PTFE resins to give DURLON® 9200W its physical and mechanical properties. Independent testing has shown the fillers in DURLON® 9200W to be more evenly dispersed than filled PTFE with layered construction. The result is more consistent physical and mechanical properties without the voids, separation and chemical compatibility problems found in layered filled PTFE. It is suitable for use in steel flanges, will not exhibit the cold flow problems associated with virgin or generic skived PTFE or the hardness problems of some other filled PTFE products. It has excellent sealability, cuts easily and separates cleanly from flanges after use.

DURLON® 9600

EXPANDED PTFE GASKET MATERIAL

100% Pure PTFE Resins
ASTM F104: F428111-A9B5

APPLICATION:

DURLON® 9600 is an [EXPANDED PTFE](#) gasket material designed for use in process piping and equipment in chemical, pulp and paper, food and beverage and other general industrial applications where resistance to highly aggressive chemicals is required.

DURLON® 9600 is suitable for use in steel flanges and flanges with irregular surfaces. Durlon 9600 (including branding) conforms to FDA requirements.

COMPOSITION:

DURLON® 9600 is made with only pure PTFE resins. It is suitable for use in steel flanges and as well as flanges where a highly compressible gasket is required. DURLON® 9600 is also suitable for sealing flanges with irregular surfaces. It will not exhibit the cold flow problems associated with virgin PTFE or the hardness problems of some other filled PTFE products. It has excellent sealability, cuts easily and separates cleanly from flanges after use.
