



PRODUCT NEWS

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BLUE-GARD® - Compressed Sheet

Applications

The BLUE-GARD® compressed asbestos-free gasketing family eliminates the need for asbestos in high pressure and temperature applications. BLUE-GARD® gaskets provide superior sealability, torque retention, and heat resistance because of the unique blends of synthetic fibers, fillers and elastomeric binders which characterize the base materials. Each grade is available in thicknesses of 1/64" thru 1/8". Manifold gaskets, flange gaskets, seals, packings, washers and other cut parts of BLUE-GARD®, are available from Auburn, as well as sheets and rolls (see reverse side).

* Style 3000

Color: Blue
Binder: Nitrile
Fluid Service: Water, aliphatic hydrocarbons, oils, gasoline, mild acids and alkalies.
Temperature, Max.: +700°F (+370°C)
Pressure, Max.: 1000 psi (70 bar)
P x T, Max.: 350,000 (12,000)

A good general purpose gasketing material.

* Style 3100

Color: Off-White
Binder: SBR
Fluid Service: Water, inert gases, mild acids, and alkalies.

Temperature, Max.: +600°F (+315°C)
Pressure, Max.: 900 psi (62 bar)
P x T, Max.: 350,000 (12,000)

A more economical gasketing material for less severe conditions.

* Style 3200/Style 3400

Color: Style 3200 - Off White
Style 3400 - Grey/Black
Binder: SBR
Fluid Service: Water, saturated steam, mild acids and alkalies, and inert gases.
Temperature, Max.: +700°F (+370°C)
Pressure, Max.: 1200 psi (83 bar)
P x T, Max.: 350,000 (12,000)

A superior sealing gasket material for severe service conditions.

* Style 3300

Color: Black
Binder: Neoprene
Fluid Service: Water, saturated steam, refrigerants, oils, fuels, mild acids and alkalies.
Temperature, Max.: +700°F (+370°C)
Pressure, Max.: 1000 psi (70 bar)
P x T, Max.: 350,000 (12,000)

A superior gasketing material for use in oil & fuels.

* Style 3700

Color: Light Grey
Binder: EPDM
Fluid Service: Water, saturated steam, acids and caustics of moderate concentrations.
Temperature, Max.: +700°F (+370°C)
Pressure, Max.: 1200 psi (83 bar)
P x T, Max.: 350,000 (12,000)

The EPDM binder assists greatly in adding to the gasket's serviceability in saturated steam and many alkalies. Also adds exceptional resistance to weather aging and ozone.

These ASTM values clearly show why the BLUE-GARD® family of compressed asbestos-free gasketing seals better . . .

Typical Physical Properties

ASTM Test Method	Physical Properties	Style 3000	Style 3100	Style 3200/3400	Style 3300	Style 3700
F37	Sealability: Milliliters/Hour Leakage, ASTM Fuel A (isooctane): Gasket load, 500 psi (3.5 N/nm ²), Internal pressure 9.8 psi (.7 bar). Nitrogen: Gasket load, 3000 psi (20.7 N/nm ²) Internal pressure 30 psi (2 bar)	0.2	0.2	0.1	0.2	0.1
		0.60	0.6	0.4	1.0	0.7
	Creep relaxation percent:	20.5	23.9	18.4	18.2	24.5
F36	Recovery percent:	50	40	50	50	40
F36	Compressibility percent:	7-17	7-17	7-17	7-17	7-17
F146	Fluid Resistance after Five Hour Immersions: ASTM #1 Oil @ +300 F Thickness Increase: Weight Increase, Maximum: ASTM #1 Oil @ +300 F Thickness increase: Tensile Loss, Maximum: ASTM Fuel A @ +70-85 F Thickness Increase: Weight Increase, Maximum: ASTM Fuel B @ +70-85 F Thickness Increase: Weight Increase, Maximum:	0-5%	0-10%	0-10%	0-5%	20%
		8%	20%	20%	15%	-
		0-15%	10-25%	15-30%	15-30%	60%
		35%	70%	70%	50%	-
		0-5%	0-15%	0-15%	0-10%	10%
		8%	25%	25%	20%	-
0-10%	10-25%	5-25%	5-20%	20%		
	15%	30%	30%	20%	-	
F152	Tensile Strength Across Grain psi (N/nm ²)	2500 (17)	2200 (15)	2800 (19)	2800 (19)	2500 (17)
	Density lbs/ft ³	100	100	100	100	100
DIN 3535 Part 4	Gas Permeability, 1/16" thickness (1.5 mm) cc/min Nitrogen: Internal Pressure: 580 psi (40 bar) Gasket Load: 4640 psi (32 N/nm ²)	.05	.05	0.3	.08	.04

Note: Test results in accordance with ASTM F-104; properties based on 0.8 mm (1/32") sheet thickness except as noted.

Ordering Information

All BLUE-GARD® compressed asbestos-free gasketing styles are available in sheet sizes of 60" x 60", 60" x 120", and 60" x 180" and in six thicknesses, 1/64", 1/32", 3/64", 1/16", 3/32" and 1/8". In addition, Styles 3000, 3200, 3400, and 3700 are also available in sheet sizes of 75" x 75", 75" x 150", and 150" x 150" in 1/32", 1/16", 3/32", and 1/8". All BLUE-GARD® styles are furnished with an anti-stick parting agent as standard.