

DURLON[®] 8500

Aramid/Inorganic Fiber with NBR Rubber Binder COMPRESSED SHEET GASKET MATERIAL ASTM F104: F712120-A9B3E12K5M6

APPLICATION:

Our workhorse material, DURLON[®] 8500 is excellent in steam, natural gas, soybean processing and with new generation refrigerants. A high quality general service gasket material for use in a wide range of services in pulp and paper, food, beverage, pharmaceutical, chemical, refinery, gas pipeline and general industry. DURLON[®] 8500 exhibits good compressibility and recovery, excellent sealability, flexibility and cutting characteristics.

COMPOSITION:

DURLON[®] 8500 contains high-strength aramid and inorganic fibers bonded with high-grade Nitrile (NBR) rubber.

FIRE TESTING:

DURLON[®] 8500 has successfully passed a modified version of the API 607 fire test. The duration of the direct flame portion of the test is 30 minutes and the flange temperature must reach 1200°F in the first 15 minutes. The internal pressure is held at a constant 30 psig. After the flame is shut off, the fixture is immediately water quenched with an overhead water blast. Leakage must not exceed 100 ml/min after a 6 minute cool down to successfully pass the test. Subsequent leakage testing is also performed.

ANTI-STICK PROPERTIES:

Much effort has gone into improving the anti-stick release agents of all compressed DURLON[®] products. All DURLON[®] compressed gasket materials have passed the MIL-G-24696B Navy Adhesion Test (366°F/48 hrs).

TYPICAL PROPERTIES:

Color:	Green, branded
Fiber:	Aramid/Inorganic
Binder:	Nitrile (NBR)
Fluid Services:	Saturated Steam, Oils, Fuels, Dilute Acids & Alkalis, Solvents, Refrigerants
Density:	1.7 g/cm ³ (106 lbs./ft ³)
Tensile Strength, ASTM F152:	2,000 psi (13.8 MPa)
Compressibility, ASTM F36:	8 to 16%
Recovery ASTM F36:	50%
Temperature Range:	-100 to 700°F (-73 to 371°C)
Continuous, max:	548°F (287°C)
Pressure, max:	1500 psig (103 bar)
Fluid Resistance - ASTM F146 IRM 903 oil, 5 h/300°F (149°C) Thickness Increase:	0 to 15%
Weight Increase:	15%
ASTM Fuel B 5 h/70°F (21°C) Thickness Increase:	0 to 10%
Weight Increase:	10%
Sealability ASTM F37 (Fuel A):	0.01 mL/hr
ASTM F37 (Nitrogen):	0.4 mL/hr
Volume Resistivity, ASTM D257:	4.2 x 10 ¹³ ohm-cm
Dielectric Breakdown, ASTM D149:	11.7 kV/mm (297 V/mil)
DIN 3535 Gas Permeability:	0.03 cc/min
Creep Relaxation ASTM F38:	20%
Flexibility, ASTM F147:	10x

