

Buna-N (Nitrile)

Buna O-rings are the most common o-rings on the market. Ideal for water or hydrocarbons (Oil & Gas), they are a staple in the industry. In recent years gasoline formulations have been changed to reduce emissions or reduce wear in engines. The additives used to accomplish this are NOT always compatible with Buna-N and has resulted in the auto industry upgrading o-rings to Viton® elastomers. Buna-N however is the least expensive o-ring material on the market so, it will continue to be the most often used in easy, low temperature (less than 225 F) mid Ph level applications.

Description:

Nitrile butadiene rubber (NBR) is a family of unsaturated copolymers of 2-propenenitrile and various butadiene monomers (1,2-butadiene and 1,3-butadiene). Although its physical and chemical properties vary depending on the polymer's composition of nitrile, this form of synthetic rubber is generally resistant to oil, fuel, and other chemicals (the more nitrile within the polymer, the higher the resistance to oils but the lower the flexibility of the material).

Properties:

Good Wear Resistance, Good Compression Set Resistance, Good Short-Term Resilience, Good Permeation Resistance.

*Can be ordered in higher durometers for high pressure applications to prevent extrusion or ordered in lower durometers for fast sealing in lower pressure applications.

Temperature Range:

-35° F to 250° F

Recommended For:

Silicone Greases / Oils, Water, Petroleum Oils / Fuels, Ethylene Glycol Fluids

NOT Recommended For:

Ketones (MEK), Halogenated Hydrocarbons, Auto / Aircraft Brake Fluids, Strong Acids, Sunlight, Ozone, Weathering.

