



LINAGARD® NBR RUBBER

(also known as Linatrilite)

FEATURES

Specifying the right lining material for oil or chemical services used to be a compromise. Natural rubber gives good abrasion resistance, but is not suitable for oil immersion. Normal nitrile-based rubbers offer excellent oil resistance, but their poor wear performance limits their use in high abrasion applications.

Linagard® NBR rubber is a nitrile based rubber specifically formulated to give good abrasion resistance in the presence of oils and chemicals. Linagard NBR rubber also exhibits excellent high temperature service and can be used up to 110°C (230°F) with suitable adhesives, or where mechanical fixing is employed.

Design features include resistance to mineral/vegetable oils, resistance to chemicals, greases and aliphatic hydrocarbons, excellent resistance to high temperature, thermal ageing and fatigue, good resistance to wear, low permeability to gases.

A nitrile (NBR) based vulcanizate reinforced with silica fillers.

TECHNICAL INFORMATION

Polymer Type	NBR	
Hardness (IRHD)	55	ISO 48 - 2010
Modulus @ 500% (MPa)	4.0	ISO 37 - 2011
Tensile Strength (MPa)	11.8 (1711 psi)	ISO 37 - 2011
Elongation at Break (%)	660%	ISO 37 - 2011
Tear Strength (N/mm)	19.2 (110 bsf/in)	ASTM D624-00 - 2012
Specific Gravity	1.08	ISO 2781 - 2008
Resilience (%)	45%	BS 90.3. Part A8 1990
Operating Temperature (continuous use)	-20°C to +110°C -4°F to +230°F	
Colour	Orange	

AVAILABLE SIZES

STANDARD THICKNESS 3mm to 30mm

STANDARD SHEET SIZE 9.25 x 1.23m nominal

Part sheets available to order.

Molded components gaskets and strips available from stock/to order.



APPLICATIONS

Excellent resistant to mineral/vegetable oils, greases, aliphatic hydrocarbons and other chemicals. Linagard® exhibits good resistance to abrasion, withstands aging and fatigue and has low permeability to gases.

Typical examples of applications are;

- > Grain handling systems
- > Linings in fertilizer works
- > Linings for mining applications fertiliser works and sand processing circuits where oil-based reagents are used
- > Pump linings and impellers for the chemical industry
- > Rubber coating for transmission belts

BONDING SYSTEMS

One and two part bonding systems, depending on application method and required service are available from Industrial Gaskets. Please consult your local representative for advice on the most suitable bonding method.

STORAGE

Recommended practice is to store in accordance with ISO 2230 - Vulcanized Rubber guide to storage.