



# R-LINE NBR LINING RUBBER

## 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.

R-Line NBR lining rubber is made from a premium Nitrile rubber compound and will display excellent resistance to oil and petroleum-based products including a range of fuels, greases, solvents and hydraulic fluids. It has low gas permeability and will display good water resistance. It is also resistant to vegetable oils, mineral oils and a range of aliphatic hydrocarbons.

R-Line NBR lining rubber has excellent physical properties and will display good resistance to abrasion. It will also display good temperature resistance and moderate chemical resistance to some acids and alkalis. R-Line NBR rubber features a pre-buffed finish on one side to assist with adhesion when bonded to steel or rubber surfaces. It can be bonded using a wide range of Neoprene based rubber adhesives.

Polymer Type	NBR	
Hardness	55° ± 5° Shore A	ASTM D2240
Abrasion	150mm <sup>3</sup> (max) @10N	ASTM D5963
Tensile Strength (Mpa)	12 (1740 psi) min	ASTM D412
Elongation at Break (%)	500% (min)	ASTM D412
Tear Strength (N/mm)	25 (min)	ASTM D5963
Specific Gravity	1.15	ASTM D297
Oil Resistance, Volume Swell 72 hrs @ 70°C	OIL#1-3.2%, OIL#2 +3.5%.OIL#3+7.5%	ASTM D471
Operating Temperature (Continuous use)	-20°C to +110°C -4°F to +230°F	
Colour	Orange(Buffed back)	

## AVAILABLE SIZES

**STANDARD THICKNESS** 3mm and 6mm

**STANDARD ROLL SIZE** 1200mm x 10mtrs



## APPLICATIONS

Excellent resistant to mineral/vegetable oils, greases, aliphatic hydrocarbons and other chemicals. R-Line NBR rubber 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.