

'O' RING SEALS

Data Sheet 14091301 Rev.01

The 'O' Ring, or more technically known as the toroidal seal, is one of the most significant components within your valve, pump, nozzle unit. Without it, the equipment within your process would simply not work causing other irregularities and malfunctions - so why not ensure only the best quality of seal is sourced? KAITE supplied O Rings are of the highest quality available on the market. Locally sourced in the UK, our bulk buying power ensures that high quality doesn't have to come at high cost.

We also supply materials that conform to FDA requirements of CFR title 21, section 177.2600

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Material Properties, Quick Guide

Material	Max Temp.	Min Temp.	Pros ↑	Cons ↓	Notes
Buna-N (Nitrile)	122°C (250°F)	-40°C (-40°F)	good resistance to hydrocarbons, petroleum, fuels, water, ethylene glycol	poor resistance to ozone, weathering, sunlight	can be supplied in compounds suitable for use with drinking water & food applications
Viton (Fluro Type.A)	205°C (400°F)	-20°C (-4°F)	excellent resistance to high temperatures, ozone, mineral oil, hydraulic fluids, solvents, aromatics	standard with most valve types and nozzles - can be operated outside of specification	good wear resistance, very versatile, can be supplied to suit FDA requirements
Silicone	225°C (437°F)	-50°C (-58°F)	offers wide operating temperature range and low temperature flexibility	poor tensile strength, tear resistance and abrasion resistance.	limited functionality, should be used for static seals. can be supplied to suit FDA requirements
EPDM	125°C (257°F)	-55°C (-67°F)	good low temperature flexibility, excellent resistance to ozone, weathering, sunlight	offers no resistance to petroleum based products	often used for hot water / steam applications
Kalrez (FFKM)	310°C (590°F)	-10°C (14°F)	excellent resistance to extreme high temperatures, good resistance to almost all chemicals	expensive alternative	used with applications using extreme heat or suffering from chemical attack