Carburettor O-Rings for FZS1000/FZS600

Use Nitrile (Buna-N) or Viton® (FKM/FPM) O-Rings Seal SH 70 /75

Sizes

Float needle valve: 7.5mm ID x 1.5mm cross section or 7.1 ID 1.6 cross section
Main Jet: 5.5mm ID x 1.5mm cross section x 8.5mm OD
Under Diaphragm cap 2.5mm ID x 1.5mm cross section x 5.5mm OD (in FZS1000 only)
Fuel Rail: 6.35mm ID 9.91mm OD x 1.78mm Cross Section (BS 803 V)
Idle air screw O-ring is a proprietary size of 2.70 I.D. x 1.13mm cross Section and not available as far as I know A Idle air screw: 3.0mm ID x 1.0mm cross section x 5.0mm OD may fit But I have not tried it

Nitrile O-rings

Also called NBR or Buna-N, nitrile O- rings are probably the most economical and widely used elastomer out there. This material has a desirable set of properties including low compression set, high resistance to abrasion and good tensile strength.

Temperature range: Effective from -35°C to 120°C
Suitability: General purpose, particularly in areas where the seal will be exposed to hydrocarbons, oils, petrol, water and hydraulic fluids
Benefits: Excellent abrasion and tear resistance, cost effective
Limitations: Nitrile is not good at resisting degradation by ozone or weather
Nitrile O-rings used in many applications, including where oil resistance is needed or where low temperature functionality is required. These include automotive, aircraft fuel systems, marine applications and more.

Viton™ O-rings

The name Viton is a trademark, and refers to fluorocarbon O-rings, or FKM/FPM for short. This material has an excellent tolerance for high temperatures, resistance to oils, fuels and hydraulic fluids as well as aromatics and solvents.
Various types of FKM/FPM/Viton™ O-Rings are available, with varying amounts of fluorine additions which increase performance in specific situations.

Temperature range: From -20°C up to 250°C
Suitability: Good for use in high temperature situations or where chemicals are being used. As well as resisting oils, petrol and hydrocarbons, Viton™ is resistant to mineral acids, halogenated hydrocarbons and more.
Benefits: Resistant to the majority of chemicals, as well as to degradation by UV, weather, ozone and moulds.
Limitations: Less tolerant of very low temperatures

You'll find FKM/FPM O-Rings is also widely used in the Automotive industry and Aircraft engines where resistance to corrosive liquids and fuels is required. This material has low compression set characteristics, making it ideal for use in high temperature environments, as well as resistance to all sorts of chemicals.

Finally

Viton™ /FKM/FPM superior to Nitrile in almost all situations, except at very low temperatures.
The latest in O-Rings standards is FFKM and is probably best of all, but more expensive plus it operates at much lower temperatures (-45C) than FKM and Nitrile