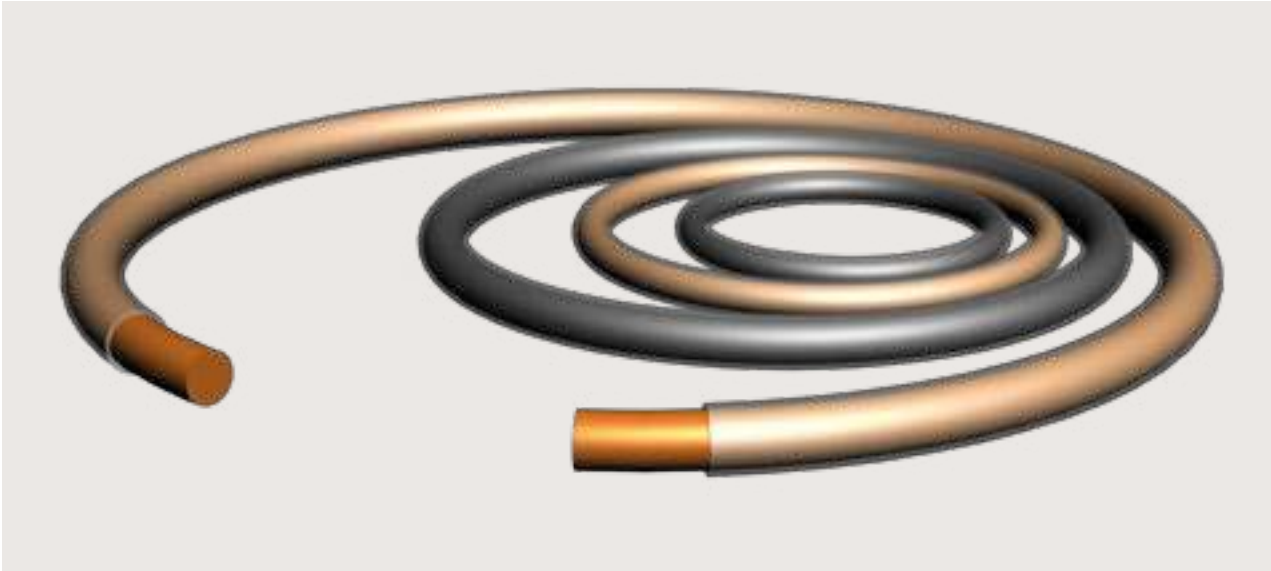


# FEP.

## Coated O-Rings with rubber-elastic inner ring.



### DESCRIPTION

FEP [Fluorinated ethylene-propylene] is a thermoplastic material with properties similar to PTFE. O-rings which are seamlessly coated with FEP have an elastic core made from FPM or VMQ and are used if very high thermal or chemical loads are present. The high chemical resistance of the coating protects the core against damage by the potentially aggressive medium.

FEP coated O-rings are used - similar to PTFE-rings - where the chemical resistance of the normal elastomer O-ring is no longer sufficient, but where a certain elasticity is needed. The elasticity is ensured by the inner ring and the chemical resistance is achieved by the seamless FEP coating.

### PROPERTIES

- Very good chemical resistance against most liquids and chemicals
- Temperature range from approx.  $-60^{\circ}\text{C}$  to  $200^{\circ}\text{C}$  [depending on inner ring material]
- No contamination of food, pharmaceutical or medical products
- Physiologically harmless, can be sterilised
- Sufficient elastic behaviour
- FEP O-rings can be replaced with standard O-ring seals without limitation
- No changes to the groove dimensions are necessary
- The O-rings are less flexible than elastomer O-rings due to the FEP coating. They can only be stretched minimally and have a lower elasticity or a higher permanent deformation

### APPLICATIONS

FEP coated O-rings are perfectly suited for the chemical and petrochemical sector, medical technology, food sector, water and waste water technology and similar industrial applications. A typical application for FEP coated O-rings is the sealing of valve stems and as a secondary sealing element for slow switching and rotary movements.