SK801 is a sealing material based on Polytetrafluoroethylene (PTFE) and it is widely used in dry-running service. A typical application is the compression of gases like Hydrogen, Nitrogen and Hydrocarbons mostly by reciprocating systems. The optimized content of Carbon fibers, Polymeric fillers and Lubricants as well as the special processing ensure high service life-times, increased mechanical properties and an improved chemical resistance.

SK801 Sealing material for bone-dry Hydrogen in non-lubricated applications
**Mechanical Properties**

SK801 shows an increased stiffness due to the high filler content. The mechanical properties have been investigated using a tensile testing machine under standard (DIN EN ISO527-1) conditions.

- Elastic modulus: 1,720 MPa
- Tensile strength: 21.2 MPa
- Elongation at break: 13 %
- Density: 1.90 g/cm³
- Hardness: 69.4 Shore D

**Customer Guideline**

**Operating Conditions:**

- Dry-running
- Pressure up to 200 bar
- Temperature up to 150 °C
- Average velocity up to 4.5 m/sec
- Dew point down to “bone-dry”

**References:**

- Refinery applications
- Hydrogen compressors
- Natural gas stations
- Biogas applications

Please contact STASSKOL to get additional information about SK801. You will be supported by choosing the best sealing material according to the operating conditions of your application.

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