

ECONOMOS

# S-ECOPUR

New self-lubricating sealing material



# Material

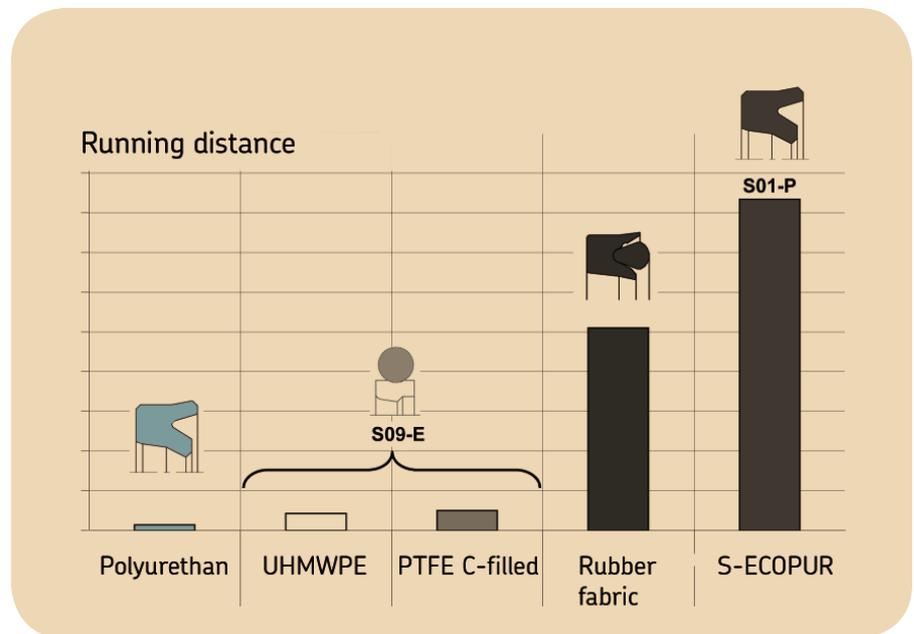


S-ECOPUR tube

## S-ECOPUR – a special formulated material

Our experts have developed the new S-ECOPUR, a unique polyurethane sealing material, with excellent properties for pressure water applications. It is a synergistic combination of solid additives, incorporated in a unique polyurethane matrix, resulting in exceptional low friction properties, reduced stick-slip tendency and excellent start up performance. In clear water and water

based media, the wear resistance and material stability is outstanding. For our clear water test rig results please refer to the enclosed diagram.



Test results of the reciprocating clear water test rig

# Seal design

## Virtually no limits

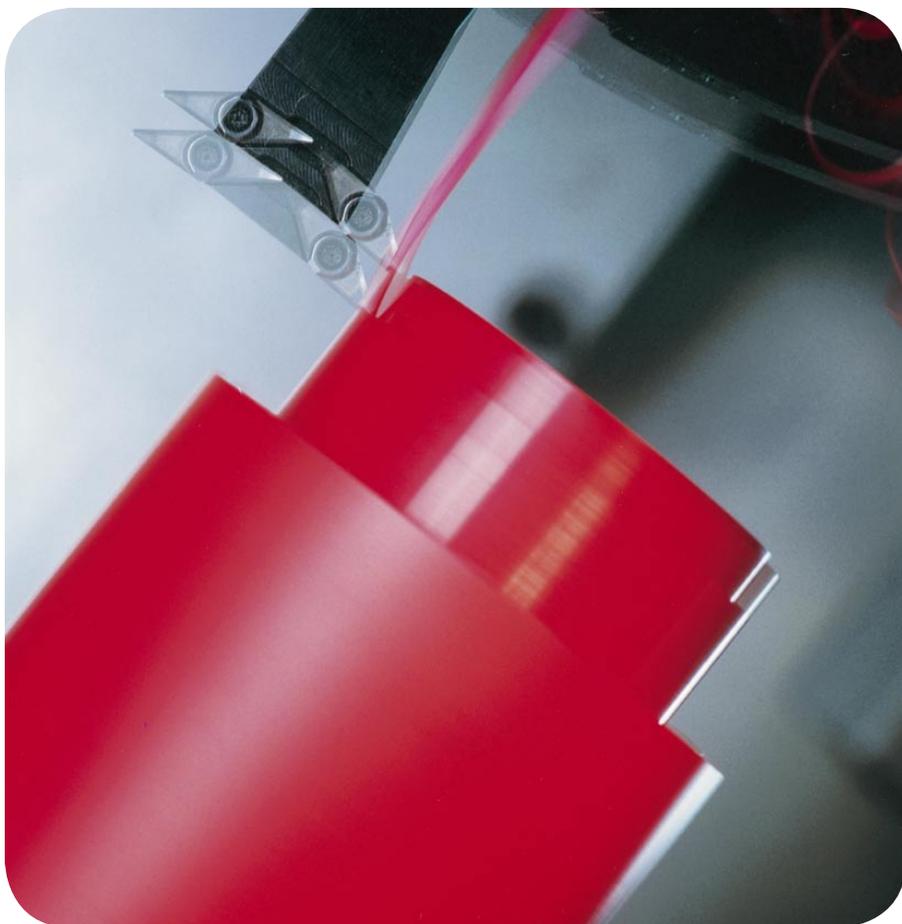
SKF ECONOMOS offers a unique manufacturing system, using CNC lathes to produce seals with diameters ranging from 4 to 4 000 mm and a virtually unlimited range of welded seal profiles.

## Customized seal design

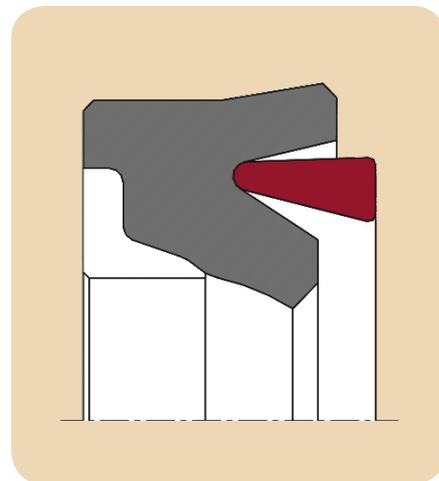
In co-operation with our customers we develop individual seals for specific requirements. Just one single seal or large quantities of customized designs are machined on our CNC lathes without tooling or moulding costs. If required, seals are delivered on the same day (depending on the diameter). Furthermore, we specialise and offer limited editions of injection-moulded seals.

## S02-WH – an optimized seal design

The S02-WH seal is especially suitable for operations with pressure water application in combination with slow linear actuation. This unique design ensures simple mountability, the exact seal positioning within the housing and reduces overall friction.



Seal Jet system



S02-WH seal design

# Your partner

## Your sealing partner

SKF Economos develops seals for new equipment and retrofits existing housings. We combine a fast and flexible manufacturing process, extensive in-house testing, design competence and a wide selection of unequalled materials with extensive field experience for the most critical industrial applications.

All our seals offer extended service life and superior sealing performance.

Our customers gain enormously from our short production processes, our on-time delivery, reduction of operational costs and a cut in machine downtime. Please contact our specialist for detailed information.



# Knowledge engineering

## Applications

Water hydraulic systems in industrial applications are increasingly used to resolve safety and environmental concerns. Press forming plants forge crank shafts for automotive engines at highest productivity levels. In underground mining, machines are operated in most extreme conditions. In hydro power plants, controlling the water flow optimizes turbine performance. In oil and gas offshore operations, water based hydraulic fluids are required to meet stringent environmental regulations. Pressure water applications are always a challenge for seals: the sealing material must feature superior stability in water, highest tensile strength and best wear resistance.

SKF Economos has developed S-ECOPUR, a unique polyurethane material, which meets customers requirements on production uptime, operational excellence, cost effectiveness, quality, safety and environmental sustainability.

## Knowledge and Experience

Our specialists develop not just seals, but also provide specialised solutions for the OEM and the MRO market. Our innovative production processes, combined with our extensive Research and Development activities and our comprehensive field experience, gained from long term customer relations ensure the highest quality of our products and enable us to understand and solve your sealing requirements.



*Hydro power industry*



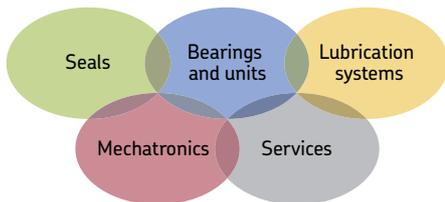
*Press forming industry*



*Mining industry*



*Oil and gas industry*



### The Power of Knowledge Engineering

Drawing on five areas of competence and application-specific expertise amassed over more than 100 years, SKF brings innovative solutions to OEMs and production facilities in every major industry worldwide. These five competence areas include bearings and units, seals, lubrication systems, mechatronics (combining mechanics and electronics into intelligent systems), and a wide range of services, from 3-D computer modelling to advanced condition monitoring and reliability and asset management systems. A global presence provides SKF customers uniform quality standards and worldwide product availability.

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