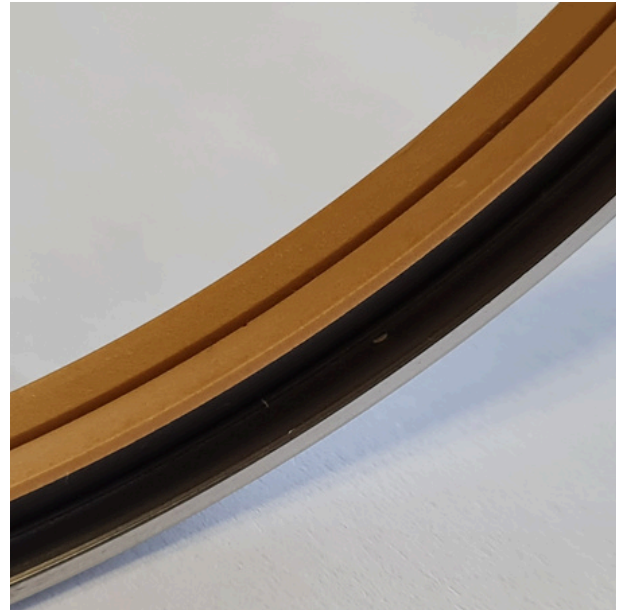


# Rotary Shaft Seals

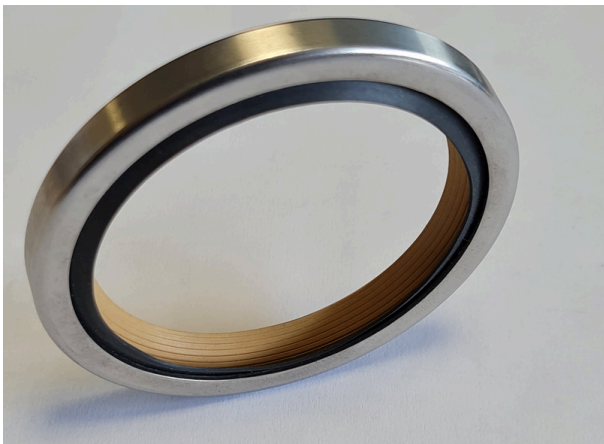
As part of our seal range Fluorocarbon can provide Rotary Shaft Seals that utilize our wide range of PTFE materials. A typical Rotary Shaft Seal sits between a rotating shaft and a fixed housing. The outer surface of the seal being an interference fit into the housing while the inner lip of the seal runs against the rotating shaft.

The outside diameter of the seal are usually metallic and can be specified to meet customer requirements, also the housings can be either coated with a polymeric material or an elastomer of choice.





The sealing lip(s) can be specified with multi-PTFE lips and directional hydrodynamic features to improve sealing depending on application. Where sealing at lower pressure becomes an issue, the lip can also be spring energized.

Combined with this Fluorocarbon can supply sealing lips manufactured from our extensive range of a special grade filled PTFE's to maximise product life and performance.



Fluorocarbon have various grades of PTFE filled materials depending on the application. Our standard Rotary Shaft Seals are used to provide sealing and wiping functionality for rotating movements, to very high speeds, a large temperature range (-196 to 260C) at reasonable pressures.

+44 (0) 845 2505 100 

info@fluorocarbon.co.uk 

www.fluorocarbon.co.uk 

# Rotary Shaft Seals

## Market Segments



Aerospace applications



Food Industry



Construction equipment



Heavy off-highway -  
gearboxes, axles motors.  
Mining



Oil & Gas



Chemical Industry



Semiconductor



Agriculture machines



Renewables Energy



Compressors



## Advantages

- Modern lip design provides low radial forces, including hydrodynamic seal elements.
- High resistance to chemicals and petroleum-based fuels including petrol, diesel and LPG.
- Excellent chemical resistance
- Wide operating temperature range
- Very low coefficient of friction (low torque)
- No stick - slip effect/drag reduction
- High resistance to wear
- Dry run capability (PTFE)
- Very high shaft surface speeds
- Sealing large eccentricities
- Good static sealing
- By directional sealing keeps media separated on a single shaft.

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