

## **Perlast G74S – the longer lasting perfluoroelastomer seal for API manufacture**

High performance seals specialist Precision Polymer Engineering (PPE) announces Perlast® G74S, a highly pure white perfluoroelastomer (FFKM) which sets a new standard for FFKM physical performance in aggressive chemical, pharmaceutical and bio-analytical environments.

Until now the demand for the high temperature and chemical resistance of perfluoroelastomers in active pharmaceutical ingredient (API) manufacture has meant that weaker physical performance was an accepted trade-off. With Perlast G74S there is no performance trade-off. For the first time, pharmaceutical engineers and equipment-makers have a longer lasting FFKM seal for pharmaceutical manufacturing equipment.

Perlast G74S is FDA and USP Class VI compliant. However, unlike other FDA-compliant elastomers, Perlast G74S is thermally stable at higher temperatures. It is ideal for use in applications which require continuous exposure to temperatures in excess of 260°C (500°F).

It is the physical properties of Perlast G74S which set it apart. Excellent compression set and low modulus give G74S superior sealing efficiency when used as an O-ring. These properties also help the material to resist stress-induced chemical attack resulting in extended life. High tensile strength and elongation make G74S ideal for diaphragms and allow very small diameter O-rings to be installed into piston grooves without damage from stretching. Perlast G74S is suitable for both static and dynamic sealing and can be moulded into complex shapes.

In addition to steam resistance, Perlast G74S has improved acid and alkali resistance. Consequentially the Perlast seals are resistant to aggressive cleaning agents and withstand steam-in-place (SIP) and clean-in-place (CIP) procedures within pipe work and vessels and Stage II Sterilization processes. Perlast G74S is also suited to other critical applications such as Water-For-Injection (WFI) systems.

### **Black Seal Replacement**

The white Perlast G74S is a credible alternative to conventional black FFKM in many applications. Black seals normally have better physical performance than white seals due to the reinforcing effects of the black filler. However, if the seal sheds particles it can contaminate the product with black specks leading to loss of a production batch. Perlast G74S on the other hand matches the black seals' physical performance and, in the unlikely event of shedding, is visually undetectable.

### **Easier Seal Maintenance and Reduced Seal Spares Stockholding**

The all-round properties of Perlast® G74S give process equipment-makers and pharmaceutical manufacturers the opportunity to standardise with a single perfluoroelastomer for all their processing needs rather than a mix of black and white materials. In addition to easier maintenance, selecting Perlast® G74S allows organisations to simplify and rationalise their stockholding of FFKM seals with cost savings.

For further information on Perlast G74S contact PPE on 01254 295400 or visit [www.prepol.com](http://www.prepol.com).