



## **FDA Compliant Mechanical Seal Materials**

### **IMPORTANT**

ALL WETTED MATERIALS MUST BE CONSIDERED.

FDA COMPLIANT (OR EXEMPT/GRAS\*) MATERIALS ARE ONLY AVAILABLE FOR MULTI-SPRING SEALS.

#### **Carbon**

- Carbon grade FH82Z5 (AESSEAL standard supply).
  - Listed FDA 21 CFR 177.2410
- Dry Running Carbon grade FH71Z5 / FH71ZH5
  - Exempted FDA 21 CFR 170.39
- Antimony carbon grades are NOT included. For other FDA compliant grades refer to QA Dept list.

#### **Silicon Carbide**

- Sintered and reaction bonded SiC (AESSEAL standard supply).
- Exempted from FDA regulations (GRAS\*).

#### **Tungsten Carbide**

- Nickel bound TC (AESSEAL standard supply).
- Exempted from FDA regulations (GRAS\*).

#### **Alumina Ceramic**

- 99.5% Alumina Ceramic (AESSEAL Standard supply).
- Exempted from FDA regulations (GRAS\*).

#### **PTFE / Teflon**

- Virgin PTFE (GRAS\*).
- 25% Glass filled – Specific FDA grade (certified).

#### **Viton 'O' rings**

- ESP V680-70 or PPE V70H.
- Listed FDA 21 CFR 177.2600

**EPDM 'O' rings**

- Specific FDA grade (certified).
- Listed FDA 21 CFR 177.2600

**Kalrez 'O' rings**

- Specific FDA grade (certified). Kalrez® 6221, 6230 & 6230A
- Listed FDA 21 CFR 177.2400

**FEP 'O' rings**

- Standard AESSEAL supply FEP O-rings.
- Listed FDA 21 CFR 177.1550

**Gasket**

- Gylon c/w adhesive backing (FDA certified excl. adhesive).
- Listed FDA 21 CFR 177.1550

**Grease**

- Molykote 111.
- Listed FDA 21 CFR 178.3570

**316L Stainless Steel**

- Generic material exempted from FDA regulations (GRAS\*).

GRAS \* : Generally regarded as safe.