

Mechanical Pressure Measurement

Chemical seals with PTFE foil

Chemical seals are mounted when the medium must not come into contact with the measuring instrument. The application of chemical seals is inevitable especially for toxic and environmentally damaging media, or where corrosion resistance has to be ensured, but also when hygiene regulations require it.

The most difficult measuring tasks can be mastered by using chemical seals with PTFE foil.

We have developed a new process – the KCT process – with which we are able to apply PTFE foil in a very thin, homogeneous layer. The process has no effect on the operating capacity of the chemical seal. Thanks to this new process, even difficult shapes (e.g. clamp chemical seals) can be coated with foil.



Improved Features with the KCT Technology

- ◆ High temperature resistance from $-40\text{ }^{\circ}\text{C}$ to $+260\text{ }^{\circ}\text{C}$ ($-40\text{ }^{\circ}\text{F}$ to $+500\text{ }^{\circ}\text{F}$) (please regard possible limitations due to the filling liquid)
- ◆ Applicable up to 400 bar (5000 psi)
- ◆ Highly vacuum-proof up to $260\text{ }^{\circ}\text{C}$ ($500\text{ }^{\circ}\text{F}$) – depending on the filling liquid
- ◆ PTFE foils up to 0.5 mm (0.02") can be processed, with negligible influence on the measurement result
- ◆ Difficult shapes can be coated with foil (e.g. clamp chemical seals)
- ◆ Chemical seals made of special materials (e.g. tantalum) can be coated with foil

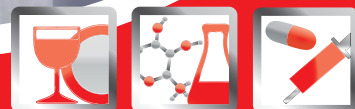
PTFE Properties

- ◆ High chemical resistance (even with aggressive acids such as aqua regia)
- ◆ Excellent anti-adhesive properties (extremely low surface tension)
- ◆ Very good abrasion protection
- ◆ Very good sliding properties
- ◆ Physiologically safe

cold pressed



The previous process has been replaced by the new KCT-process!



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