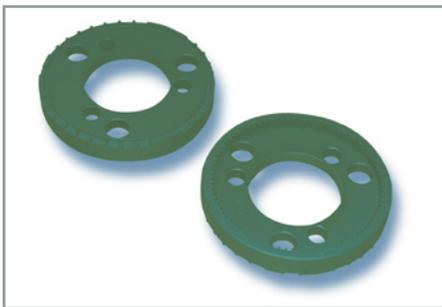




## Sliding coatings and dry lubrication properties (ChemCoat<sup>®</sup>, SafeCoat<sup>®</sup>, TempCoat<sup>®</sup>)

Today, efficient fault-free processing as well as the transport of metals, plastics, paper and food in many production processes would be unthinkable without the excellent sliding properties of product-contacting surfaces. Due to their low friction coefficients (static and dynamic), fluorinated polymers are essential coating materials for these kinds of applications. For alternating motions the typically small difference between the above values has the big advantage of low "breakout" values. ChemCoat<sup>®</sup> fluorinated polymer coatings ensure a particularly strong anchoring on the substrate material. Due to their additional enhancement layers, TempCoat<sup>®</sup> coatings show particularly good wear resistance. The multi-layered SafeCoat<sup>®</sup> system has a long service life.

Some of the coatings have fillers of graphite and other inorganic materials which ensure slip and emergency running properties and make lubricants redundant.



### Sprockets

**Material:** steel

**Requirements:** good sliding properties and dry lubrication

**Solution:** ChemCoat<sup>®</sup>



### Folding shoe

**Material:** sheet metal

**Requirements:** good non-stick and slipping properties, suitable for food

**Solution:** TempCoat<sup>®</sup>



### Ball valve

**Material:** grey cast iron

**Requirements:** excellent chemical resistance, good sliding properties and wear resistance

**Solution:** SafeCoat<sup>®</sup>

### Basic substrate materials

Steel · aluminium · special steel · ceramics · copper (subject to the application) · cast iron · glass

### Pre-treatment processes

Degassing · sandblasting · degreasing

### Performance characteristics

**Coating thickness**

7 µm to 1.5 mm

**Sliding properties**

friction coefficient (static) up to 0.09  
(against normal steel)

**Roughness**

up to 1.0 µm

**FDA compliance**

in parts

### Services

We will consult with you on specific requirements to find a tailored coating process for your components. All relevant processing steps will be reviewed and agreed upon with you – from initial sampling to the start of series production. In addition to our technical services we can offer you a tailored logistics package, including pick-up and delivery service, on request.