

Surface Treatment



SURLON® KE COATINGS

SURLON® KE coatings are composite coatings applicable in combination with both technical anodised layers and hard anodised layers. At Surlon®, the anodising layer is integrated with a Teflon-like copolymer. This means that the layer has a non-stick character and the friction coefficient is reduced. An important characteristic is that Surlon® completely penetrates the anodised layer. This results in an extremely long and even service life. Surlon® is applied in combination with technical anodising if very effective lubrication and sliding characteristics are required and a very good non-stick surface is desirable. Surlon® is applied in combination with hard anodising if an even higher wear resistance is required than in the case of technical anodising. In this case, the wear resistance is better than steel.

Applications

The Surlon® method has been developed by Surface Treatment and is now being widely applied in the automotive, copying and medical industries, as well as in aircraft and machine building, etc.

Surlon® characteristics

- Excellent lubrication and sliding characteristics
- Provides a very good non-stick surface
- Low critical surface tension (non-stick)
- Better wear resistance than steel
- Increases surface hardness
- Improves resistance to aggressive substances (particularly in the 5 to 9 pH range)
- High corrosion resistance
- Excellent electro-insulating characteristics

Specification

MIL-A-63576

Certificates / approvals

NADCAP, McDonnell Douglas