

# EMATAL ANODISING

## EXCELLENT GLIDING PROPERTIES

The Ematal process refines aluminium components with a highly wear resistant and smooth surface. During the Ematal anodising process a titanium-containing electrolyte creates a particularly compact protective layer. This layer grows up to 80% into the aluminium, resulting in a very low material build-up. Ematal coatings have an opaque, light grey to bronze colour and can be coloured completely black.



Hydraulic cylinder made of aluminium with Ematal coating in own colouring

## ADVANTAGES

- Excellent gliding properties
- Minimal increase in surface roughness
- Coating hardness up to 600 HV
- Layer thicknesses from 5 to 30 µm
- Low material application (20% of the layer thickness)
- Excellent dimensional accuracy
- Temperature resistance up to 200°C
- High corrosion resistance up to 1200h according to ISO 9227
- High resistance to various acids, salts, solvents and lubricants
- Pleasant haptics

## APPLICATIONS

Ematal anodising is applied when friction caused by mechanical contact or a flowing medium is to be minimised:

- Valve technology
- Nozzles for gases and liquids
- Pneumatics and hydraulics
- Plain bearings
- Mechanical engineering
- Food technology

Maximum component sizes: 2500 x 500 x 1000 mm