

# TiN-ULTRAFINE

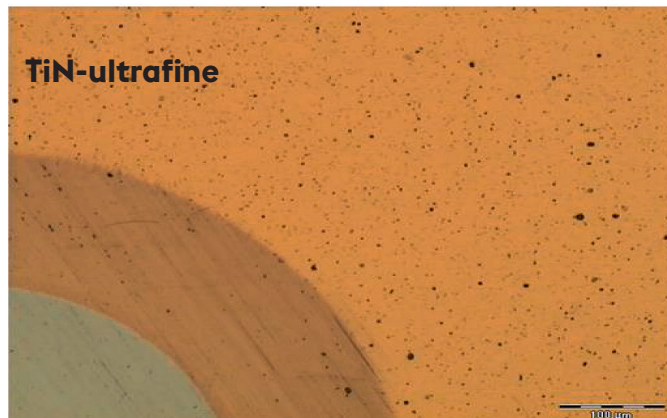
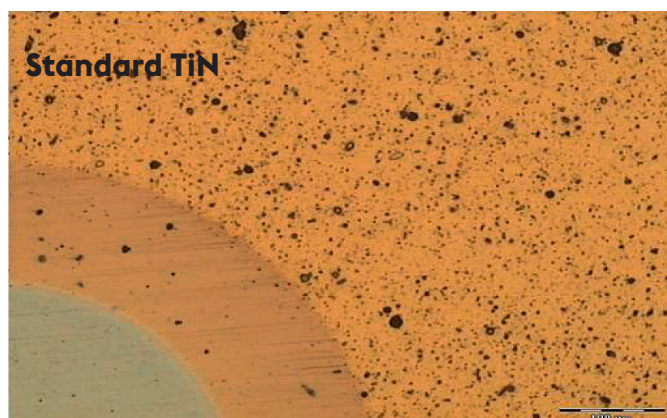
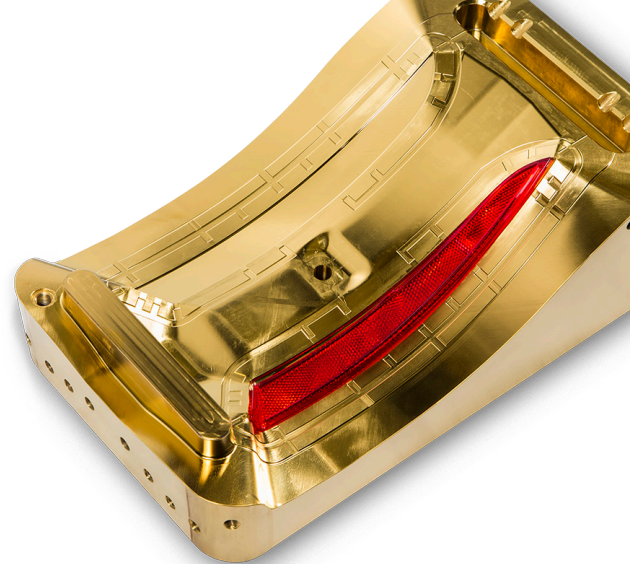
## Smooth and dense PVD arc coatings

TiN-ultrafine is the designation for our especially smooth titanium nitride arc all-round coating, which in comparison to the standard arc TiN coatings has a defect-free surface layer enabling it to achieve high performance in the area of forming, plastic moulding and an improved demoulding of injection moulds. Furthermore, its gold-like colour makes TiN-ultrafine also suitable for use in decorative applications, particularly if there are high requirements in regard to abrasion resistance.

The smooth and glossy TiN-ultrafine layer is achieved through the use of our ultrafine-technology. This technology describes our special PVD arc coating process, in which we can produce excellent coating properties using innovative gas control.

## COATING PROPERTIES

<b>Hardness</b>	2,800 ±150 HV
<b>Max. operating temperature</b>	500 °C / 930 °F
<b>Coating thickness</b>	2 – 4 µm
<b>Color</b>	gold



Surface with calotte grinding of a standard TiN (top) and a TiN-ultrafine.