

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 de-moulding 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.

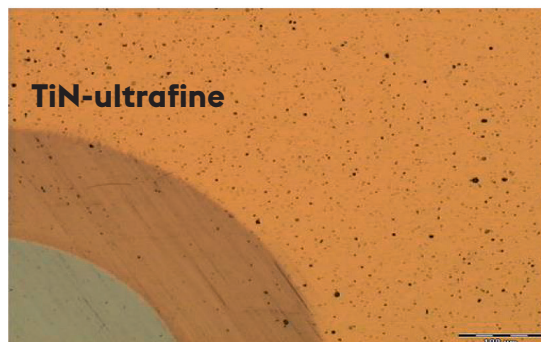
The smooth and glossy TiN-ultrafine layer is achieved through the use of our SPCS technology. SPCS stands for “**S**trongly **P**oisoned **C**athode **S**urface” and describes our special PVD arc coating process, in which we can produce excellent coating properties using innovative gas control.



A mould coated with TiN-ultrafine for use in plastic injection (in front the fabricated plastic cover for the automobile sector).

COATING PROPERTIES

Hardness	2,800 ± 150 HV
Max. application temperature	500 °C / 930 °F
Coating thicknesses	2 - 4 µm
Colour	gold



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