

PVD-CoatingCheck

Deposition, Analysis and Assessment Package for PVD Coatings

CONTACT

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JOANNEUM RESEARCH – MATERIALS supports companies in transforming a specific surface-related challenge into a technically suitable and reliably validated coating solution. Our deposition, analysis and assessment package for PVD Coatings provides a structured pathway from the problem to the right surface — from component geometry and coating selection through to an application-oriented testing and decision dataset.

Which surface is best suited for your component, your application, and your requirements?

Our coatings

- **Protect:** Surfaces with high hardness and chemical stability
- **Reduce:** Friction, wear and abrasion
- **Improve:** Quality by smooth, defined functional surfaces
- **Barrier:** Against media, leachable and unwanted surface reactions
- **Passivate:** for sensitive substrates like polymers, metals or 3D-parts
- **Application optimized surfaces:** for medical technology, drive technology, electronics etc.

Our services

- **Coatability:** Accessibility, shaded areas, installation, etc.
- **Coating selection:** DLC, N-DLC, Si-DLC, TiN, SiO:H or functional combinations
- **Coating of real parts:** standardized test sample specimens and close to application OEM test parts
- **Surface and functionality evaluation:** Roughness, defects, adhesion, wettability, wear, sterilization resistance, biological surface response
- **Go/No-Go decision:** Coating, geometry and next development steps