

# COATING

## INDUSTRIALIZATION OF FUNCTIONALIZED SURFACES



various coatings - functional & esthetically pleasing

### Application

many options of coating solutions based on your requirements

### OPTIONS OF FUNCTIONALIZATION

- **physical properties**
  - optical coatings – e.g. filters for light, waveguide layers, antireflection coating, silvering
  - defined wetting behavior for reproducible sample preparation
  - tight vapor barrier avoids interaction between sample and plastic or its additives
  - conductivity avoid build up of static charges
  - super hydrophobic surfaces (e.g. electrowetting applications)
  - change of surface energy (e.g. hydrophilic)
- **biological properties**
  - immobilization of biomolecules
  - tissue culture applications

- **chemical properties**

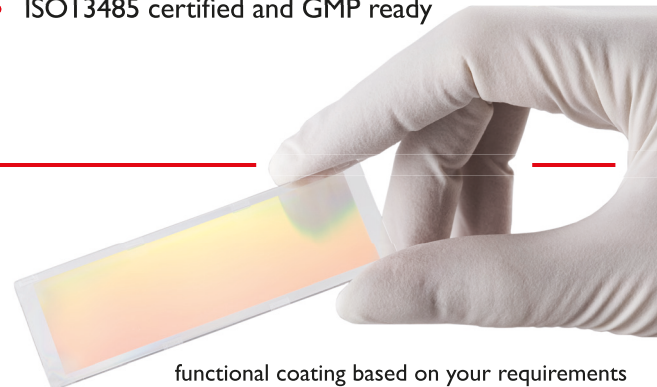
- linking of functional groups
- prevention of unspecific adhesion (e.g. protein adhesion)
- adhesive layer (e.g.  $\text{SiO}_2$  for amino-silane or epoxy silane coating)
- glass like coating – mimic glass like reaction conditions
- chemical resistance

### COATING SERVICES

- sputter coating
- chemical or physical coating
- plasma treatment

### YOUR BENEFITS

- robust and reproducibility processes for mass production
- various coating solutions
  - single or multilayer coating
  - uniform or pattern coating
- almost endless options by coating
- controlled processes by automation
- high expertise in materials & applications
- ISO 13485 certified and GMP ready



functional coating based on your requirements