Analytical methods of the DFO Service GmbH

## Analytical methods in surface treatment

### Optical microscope



- Up to 1000 times magnification
- Several illumination techniques, light filters
- Fastest way for presorting

#### **Microtome**



- Preparation of a cut down to a thickness of0.5 µm
- Cutting of plastics, wood, aluminium, steel...



## Analytical methods in surface treatment

### <u>Infrared spectroscope</u>



- Spectroscopical method for structure determination
- Characterization of the "organic chemistry"

#### SEM / EDX



- Image shows contrast of the different chemical elements on the sample's surface
- EDX detects the elemental composition
- Characterization of the "anorganic chemistry"

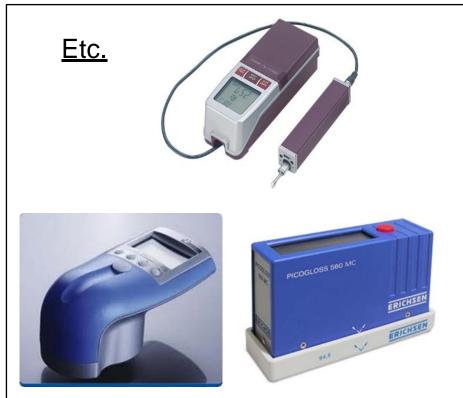


# Analytical methods in surface treatment

### Mobile Surface Analyzer



- Measures surface free energy
- Determination of the wettability etc.



- Spectrophotometers
- Gloss measuring devices
- Roughness testing equipment
- Etc.

