

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 of 0.5 μm
- Cutting of plastics, wood, aluminium, steel...

Analytical methods in surface treatment

Infrared spectroscope



- 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.

Etc.



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