

Component, Material and Damage Analysis



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Wall Thickness Measurement by means of an ultrasonic gauge
(Steel, aluminium, composites with restrictions) up to 8 positions € 80.–

Crack Inspection with dye penetrant EN ISO 3452-1:2013
Price per surface, including picture documentation € 80.–

Optical Emission Spectrometry for steel € 70.–

Optical Emission Spectrometry for aluminium alloys € 90.–

DSC Differential scanning calorimetry per sample
Determination of resin curing grade for carbon matrix,
glass transition temperature € 240.–

Optical microscopy per hour
Stereo zoom microscope 40×; fractography, inclusions € 130.–

Scanning Electron Microscopy (SEM)
including RDX analysis at request

Specimen Preparation for metallography
(required for microstructure and hardness):
Specimen extraction; sawing/cutting etc. per hour € 80.–
Mechanical preparation; cold mounting, grinding and polishing per sample € 80.–

LOM Light Optical Microscopy on mounted specimen, per specimen
Grain size, microstructure € 160.–

Hardness (microindentation test Vickers) on mounted specimen;
for investigating heat affected zone, heat treatment efficiency:
Up to 20 indentations € 150.–
5 further indentations € 30.–

Report generation and documentation per hour € 150.–

The hourly service rates are charged in blocks of 30 minutes.
All services listed above are provided and carried out in Germany.
In Taiwan, EFBE additionally offer 3-D measurement of frame geometry.