

## Portfolio of Services (1/2)

		Characteristics / Parameters	Analysis Technique
More information under	Sample Handling	Sample Preparation	Drying, Milling, Drilling, Cutting, Homogenizing
		Loss on ignition (LOI), Determination of Oil & Moisture	Gravimetry
	Wet Chemistry	Anions (F <sup>-</sup> , Cl <sup>-</sup> , Br <sup>-</sup> , NO <sub>3</sub> <sup>-</sup> , NO <sub>2</sub> <sup>-</sup> , PO <sub>4</sub> <sup>3-</sup> , SO <sub>4</sub> <sup>2-</sup> )	Ion chromatography (IC)
	Non-Metallic Elements	Carbon (C), Sulphur (S)	Combustion analysis
		Oxygen (O), Nitrogen (N), Hydrogen (H)	Carrier gas hot extraction
		Total Organic Carbon (TOC)	Combustion analysis
		Total Carbon (C <sub>tot</sub> )	Combustion analysis
		Free Carbon (C <sub>free</sub> )	Combustion analysis
	Trace Elements	Trace Elements	Inductively coupled plasma optical emission spectrometry (ICP-OES)
		Trace Elements	Inductively coupled plasma mass spectrometry (ICP-MS)
		Trace elements excluding (noble) gases	Glow discharge mass spectrometry (GDMS)
		Sodium (Na), Potassium (K), Lithium (Li)	Atomic absorption spectrometry (AAS)
		Mercury (Hg)	Atomic fluorescence spectrometry (AFS)
	X-Ray Technology	Semi-Quantitative Analysis	X-ray fluorescence spectroscopy (XRF)
		Main Alloy composition	X-ray fluorescence spectroscopy (XRF)

We offer further techniques as photometry, conductometry, titrimetry and gravimetry for different special demands.

Please see exact Scope of Accreditation in our [DAkkS-Certificate](#).

**For further information and individual quotes please contact us.**

## Portfolio of Services (2/2)

		Characteristics / Parameters	Analysis Technique
More information under	Particle Size Measurements	Particle size distribution	Laser diffraction
		Particle size distribution	Sieving (RoTap, Air Jet, Retsch, JEL,..)
		Flow behaviour	Vibrational flow
		Medium particle sizes	Fisher sub sieve sizer
		Filling density, Tap Density, Hall Flow,	Scott/Jolting volumeter, Hall flowmeter
		Deagglomeration	
		Pore volume distribution	From adsorption or desorption isotherms
		Pore volume distribution	From Mercury Intrusion Porosimetry
		Specific surface area	Specific surface area according to BET in m <sup>2</sup> /g
	Microscopy & Materialography	Density	Helium pycnometer
		SE/BE Pictures, high resolution	Scanning electron microscopy (SEM)
		Qualitative and quantitative analysis	Energy Dispersive X-Ray Spectroscopy (EDX)
		Microscopy, metallographic specimen preparation	Metallography
		Calorific value	Calorimetry
		Dust explosion hazard, Combustion class, burning rate, relative autoignition temperature	
	Gamma Spectroscopy	Line profile analysis	X-Ray Diffraction
		Natural radioactivity (U-Ra, U-Ac, Th)	Gamma spectroscopy

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