

Portfolio of Services (1/2)

	Characteristics / Parameters	Analysis Technique
Sample Handling	Sample Preparation	Drying, Milling, Drilling, Cutting, Homogenizing
	Loss on ignition (LOI), Determination of Oil & Moisture	Gravimetry
Wet Chemistry	Anions (F ⁻ , Cl ⁻ , Br ⁻ , NO ₃ ⁻ , NO ₂ ⁻ , PO ₄ ³⁻ , SO ₄ ²⁻)	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 _{tot})	Combustion analysis
	Free Carbon (C _{free})	Combustion analysis
Trace Elements	Trace Elements	Inductively coupled plasma optical emission spectrometry (ICP-OES)
	Trace Elements	Inductively coupled plasma mass spectrometry (ICP-MS)
	Sodium (Na), Potassium (K), Lithium (Li)	Atomic absorption spectrometry (AAS)
X-Ray Technology	Mercury (Hg)	Atomic fluorescence spectrometry (AFS)
	Semi-Quantitative Analysis	X-ray fluorescence spectroscopy (XRF)
	Main Alloy composition	X-ray fluorescence spectroscopy (XRF)

More information under

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 ² /g
		Density	Helium pycnometer
Microscopy & Materialography	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	
Gamma Spectroscopy	Dust explosion hazard, Combustion class, burning rate, relative autoignition temperature		
	Line profile analysis	X-Ray Diffraction	
	Natural radioactivity (U-Ra, U-Ac, Th)	Gamma spectroscopy	

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