



VERFAHRENSTECHNIK
FÜR ROHSTOFFE

UVR-FIA GmbH

Price List

January 2026

The price list contains mainly standard laboratory tests. For other test work or toll processing in our well-equipped pilot plant, see for example points 7 to 9, please send us your request by email to

info@uvr-fia.de

or call us by phone:

+49 3731 16212-20.

For questions about the examination methods,
please call the persons in charge as listed below.

Subject to amendment, please see www.uvr-fia.de for current prices.

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1 Preface

Sample delivery

Postal address:

UVR-FIA GmbH
Chemnitzer Straße 40
09599 FREIBERG/ SACHSEN
GERMANY

Loading/ unloading/ delivery of parcels:

Technical Centre and Laboratories
Entry Brückenstraße
09599 FREIBERG/ SACHSEN
GERMANY

Terms of payment

100 % after delivery of the analysis report and accounting by the contractor.

All prices are net plus German VAT. Shipping, packing and waste disposal will be charged at cost.

Invoices are due 14 days after accounting for payment.

We do not send an order confirmation for standard analytical services.

Description of your samples

The customer supplies a material safety data sheet (MSDS) prior to the tests (information for safe handling and disposal).

Results

Unless otherwise stated herein, all analyses are run as single determinations.

You receive the results as PDF file via e-mail.

The subsequent change of an analysis report (report format, language) entails additional charges, at least 29.00 EUR.

Quantity discount

More than 9 samples 10 % discount

Express order

A surcharge will be applied for urgently needed analysis results.

Storage of samples

Samples are retained for 4 weeks maximum. Customers may purchase additional storage time.

Return of samples will be charged at cost.

Hazardous materials

Hazardous materials will always be returned or disposed of at your expense.



2 Particle size analysis

2.1 Laser diffraction

Dipl.-Chem. Ben Rittmeister (Tel.: 03731 16212-59, Rittmeister[at]uvr-fia.de)

Determination of particle size distributions according to ISO 13320-1

Instrument: Sympatec HELOS

Measuring ranges: 0.18 - 35 µm; 0.9 - 175 µm; 1.8 - 350 µm; 4.5 - 875 µm

• dry dispersion (dispersing device RODOS) single determination (Required sample quantity: 10 g)	99.00 EUR
• dry dispersion (dispersing device RODOS) double determination (Required sample quantity: 20 g)	119.00 EUR
• dispersion in water (dispersing device SUCELL) single determination (Required sample quantity: 3 g solid content)	125.00 EUR
• dispersion in water (dispersing device SUCELL) double determination (Required sample quantity: 5 g solid content)	145.00 EUR
• dispersion in ethanol/isopropyl alcohol (dispersing device SUCELL) (Required sample quantity: 5 g solid content)	189.00 EUR
• other dispersing agents upon request	
• presieving of dry samples in case of the exceeding of the measuring range (0,500 mm)	36.00 EUR
• presieving of wet samples in case of the exceeding of the measuring range (0,500 mm)	45.00 EUR



2.2 Test sieving (sieve analysis with up to 6 screen cuts; screen cuts upon request)	
<i>Dipl.-Ing. Karen Grandissa (Tel.: +49 3731 16212-50, grandissa[at]uvr-fia.de)</i>	
Sieve analysis with sieve shaker (tap sieving or oscillating screening machine) Sample mass: max. 500 g, measuring range: 0.025 – 8.0 mm procedure according to DIN 66165 method F	112.00 EUR
Ultrasonic screening with oscillating screening machine Sample mass: max. 500 g, measuring range: 0.025 – 8.0 mm procedure according to DIN 66165 method F	139.00 EUR
Wet sieving with analytical sieve shaker with rinsing device measuring range: 0.025 – 8.0 mm, Procedure according to DIN 66165 method H	187.00 EUR
Ultrasonic wet screening with analytical sieve shaker with rinsing device measuring range: 0.025 – 8.0 mm, Procedure according to DIN 66165 method H	210.00 EUR
Wet sieving, hand sieving measuring range: 0.025 – 8.0 mm, Grain size analysis by hand sieving in stationary or non-stationary fluid; procedure according to DIN 66165 method B / C	upon request
Sieve analysis with box sieve KSM 500 sample mass max. 10 kg, measuring range: 1.0 – 90 mm	148.00 EUR
Sieve analysis with box sieve KSM 500 sample mass max. 10 - 30 kg, measuring range: 1.0 – 90 mm	242.00 EUR
Grain size analysis of - Substitute/secondary fuels according DIN EN 15415-1 Range: 3,15 – 125 mm - Wood chips according DIN EN ISO 17827-1 Range: 3,15 – 125 mm - Wood chips according to DIN EN ISO 17827-1/DEPI manual Ranges: 3.15 – 100 mm - Wood chips according to DIN EN ISO 17827-2; Range: 0.25 3.15 mm - Wood chips according to DIN EN ISO 17827-1 Ranges: 1.0/3.15 – 100 mm including specification of particle size parameters PL and F according to DIN EN ISO 17225-1 Table 5, or G50 according to ÖNORM M 7133 If the proportion for manual sorting exceeds 10% in the analyses mentioned, the additional work will be billed according to working hours.	149.00 EUR 149.00 EUR 175.00 EUR 227.00 EUR 269.00 EUR 69.00 EUR/h
2.3 Air jet sieving	
<i>Dipl.-Ing. Karen Grandissa (Tel.: +49 3731 16212-50, grandissa[at]uvr-fia.de)</i>	
Sieve analysis with air jet sieve, price per screen cut Procedure according to DIN 66165 method D, measuring range: 0.025 – 1.0 mm	46.00 EUR



3 Physical characterization

3.1 Surface area analysis according to BLAINE

Dipl.-Ing. Karen Grandissa (Tel.: +49 3731 16212-50, grandissa[at]juvr-fia.de)

Determination of the specific surface of powders by flow through method according to DIN 66126. True density required, if unknown, determination according to point 3.3. possible	65.00 EUR
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3.2 Surface area analysis according to BET

Dipl.-Chem. Ben Rittmeister (Tel.: 03731 16212-59, Rittmeister[at]juvr-fia.de)

Determination of the specific surface of powders by nitrogen adsorption; single-point difference method developed by HAUL und DÜMBGEN according to DIN ISO 9277, Instrument: Differential-BET-Apparatus 'Area-Max I' (company Seifert Instruments UG), duplicate determination. True density required, if unknown, determination according to point 3.3. possible	158.00 EUR
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3.3 Density

Dipl.-Chem. Ben Rittmeister (Tel.: 03731 16212-59, Rittmeister[at]juvr-fia.de)

True density of solids by helium gas pycnometry Procedure according to DIN 66137, duplicate determination Instrument: Multivolume Pycnometer (company MICROMERITICS)	65.00 EUR
Density of coating materials and similar liquids Procedure according to DIN EN ISO 2811-1:2011, duplicate determination Instrument: ERICHSEN Pycnometer	62.00 EUR

3.4 Moisture content / loss in drying

Dipl.-Chem. Ben Rittmeister (Tel.: 03731 16212-59, Rittmeister[at]juvr-fia.de)

Moisture content / loss in drying Material-specific drying with moisture analyzer (≤ 150 °C); sample mass: 30 g max.	32.00 EUR
Moisture content / loss in drying of samples 20 kg resp. 10 l max. Material-specific drying with drying oven, only non-hygroscopic solids	69.00 EUR

3.5 Bulk density / apparent density

Dipl.-Ing. Karen Grandissa (Tel.: 03731 16212-50, grandissa[at]juvr-fia.de)

Bulk density of bulk material Filling method with 1 l measuring vessel (in-house standard), triple determination	62.00 EUR
Apparent density of metallic powders Triple determination according to in-house standard based on DIN ISO 3923 part 1	62.00 EUR



3.6 Loss on ignition	
<i>Dipl.-Chem. Ben Rittmeister (Tel.: 03731 16212-59, Rittmeister[at]uvr-fia.de)</i>	
Material-specific determination of the loss on ignition, in muffle furnace, up to 1100 °C, duplicate determination	69.00 EUR
Material-specific determination of the loss on ignition, in muffle furnace, up to 1250 °C, duplicate determination	145.00 EUR
3.7 Flowability of bulk solids	
<i>Dipl.-Ing. Karen Grandissa (Tel.: +49 3731 16212-50, grandissa[at]uvr-fia.de)</i>	
Determination of the flowability (flow channel) according to FISCHER	250.00 EUR
Determination of the flowability according to IMSE	110.00 EUR
Determination of the flowability/ pourability according to SONNTAG	
• Price of the first measurement	180.00 EUR
• each additional measurement within an order	65.00 EUR
Determination of the pourability of plastics according to DIN EN ISO 6186	
• Price of the first measurement	75.00 EUR
• each additional measurement within an order	25.00 EUR
3.8 Rheological investigations	
<i>Dipl.-Chem. Ben Rittmeister (Tel.: 03731 16212-59, Rittmeister[at]uvr-fia.de)</i>	
Determination of flow curves and measurement of the dynamic viscosity Instrument: Rheotest-MLW viscometer	upon request
3.9 Determination of compacted bulk volume and compacted bulk density	
<i>Dipl.-Chem. Ben Rittmeister (Tel.: 03731 16212-59, Rittmeister[at]uvr-fia.de)</i>	
Determination of compacted bulk volume and compacted bulk density, triple determination according to EN ISO 787-11 : 1995 Instrument: Stamping volumeter type STAV II (J. Engelsmann AG)	99.00 EUR
3.10 X-ray fluorescence analysis	
<i>Dipl.-Chem. Ben Rittmeister (Tel.: 03731 16212-59, Rittmeister[at]uvr-fia.de)</i>	
Instrument: X-ray fluorescence analyzer NITON XL3t 980, Handheld instrument for powder samples and small pieces, determination of the content of the vast number of elements atomic numbers 12 (magnesium) to 83 (bismuth) and cerium, praseodymium, neodymium, thorium, U Minimum sample size for powder samples per measurement: 5 ml bulk volume	
• Price of the first measurement	49.00 EUR
• each additional measurement within an order	18.00 EUR
• Sample grinding to analytical fineness	26.00 EUR
Determination of calibration data	upon request



4 Chemical analyses

Dipl.-Chem. Ben Rittmeister (Tel.: 03731 16212-59, Rittmeister[at]juvr-fia.de)

Chemical extractions of ions (digestion) for analyses	upon request
Chemical analyses, especially for the chemical analysis of minerals	upon request
Analysis of spar: determination of the content of CaCO_3 , CaF_2 , SiO_2 and BaSO_4 of samples bearing Fluorite and Barite	upon request
Realization and optimization of chemical processes	upon request

5 Mineralogical investigations

Dipl.-Chem. Ben Rittmeister (Tel.: 03731 16212-59, Rittmeister[at]juvr-fia.de)

5.1 X-ray diffraction

Instrument: D8 Advance, Fa. Bruker, Bragg-Brentano-Geometrie, LYNXEYE Detektor
Measuring range: 5 – 130 2Theta, Sample quantity: 2-5 g, Grain size: < 63 µm

Phase analysed overview image with qualitative evaluation of the main reflexes, 5 - 70 ore 15 - 100 2Theta	168,00 €
Detailed phase-analytical overview recording	225,00 €
Analytical overview (detailed phases), quantitative phase identification and high temperature measurements	upon request
Sample preparation (dividing, grinding, drying)	upon request

5.2 Mineralogical analyses of ores and minerals

Stereomicroscopy, identification of minerals; determination of the point of mineral liberation, etc.	upon request
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5.3 Mohs hardness

Surface hardness (MOHS-scale)	75.00 EUR
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5.4 Float-sink-analysis by heavy liquid separation

Density analysis of solid raw materials by using heavy liquids up to 3.3 g/cm^3 (Float-sink-analysis)	upon request
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6 Grindability tests

Dipl.-Ing. Karen Grandissa (grandissa[at]uvr-fia.de)

BOND grindability test Determination of BOND ball mill work index W_i (BOND-Index) incl. sample preparation, required sample quantity: approx. 10 kg, optional: sieve analysis of the feed material (plus determination according to point 2.2)	1275.00 EUR
ZEISEL TEST Determination of the grindability index according to ZEISEL, incl. sample preparation, incl. determination of density, required sample quantity: minimum 1 kg	1275.00 EUR
HARDGROVE grindability test – HGI Determination of the grindability index of coal according to HARDGROVE incl. sample preparation, required sample quantity: minimum 2 kg, procedure according to DIN 51742	560.00 EUR
Recording of a grindability curve Grinding to defined grain sizes (grain size distribution, specific surface), carried out with laboratory ball mills ($\varnothing$ 305 or 750 mm), sample preparation as agreed	upon request

7 Solid-liquid-separation

Dipl.-Chem. Ben Rittmeister (Tel.: 03731 16212-59, Rittmeister[at]uvr-fia.de)

Preparation of samples Simulation of chemical processes, production of suspensions, dispersing by stirring, intensive stirring (Ultra-Turrax), ultrasonic	upon request
Filtration test according to VDI 2762 Characterization of the vacuum or pressure filtration behaviour, tests also possible with acidic, alkaline and organic substances, under inert gas or tempered atmosphere	upon request
Determination of the concentration of "Filterable Solids" (AFS) according to DIN 38409, e.g. with filter paper 0.45 μm , Drying at 105 °C	78.00 EUR
Hydrocyclone tests Tests on material separation by hydrocyclones, nominal diameter of the hydrocyclones 20 - 100 mm, larger hydrocyclones on request, test series incl. product evaluation and interpretation of the results	upon request
Centrifugal separation tests Tests on material separation by centrifugal forces with the available technology solid bowl centrifuge, centrifugal filtration, etc. (laboratory scale), test series incl. product evaluation and interpretation of the results	upon request
Sedimentation tests; settling behaviour of suspensions	upon request

8 Preparation of samples

Dipl.-Chem. Ben Rittmeister (Tel.: 03731 16212-59, Rittmeister[at]uvr-fia.de)

Comminution (crushing, grinding), drying, sample splitting as required	at cost
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9 Further services

You can find the right contact person on our homepage, <https://uvr-fia.de>

9.1 Investigations in laboratory and pilot-scale (single apparatus or apparatus group) by process engineering methods

Comminution Machines in laboratory and pilot-scale for coarse and fine comminution (several breaker mills, impact crushers, roll mills, grinding mills, etc.), wet and dry grinding	upon request
Classification Several screening machines and air classifiers, upstream classifiers, hydrocyclone technique	upon request
Separation Density separation, electrostatic separation, magnetic separation, flotation, cleansing, scrubbing and leaching	upon request
Agglomeration: granulation, pelletization, briquetting	upon request
Mixing and homogenization	upon request
Compressive and flexural strength of granulates, pellets	upon request
Studies on solid-liquid extraction (2-column system with 2 x 8 l volume)	upon request
9.2 Development and tests for the processing of raw materials, intermediates and industrial waste	upon request
9.3 Field analyses for the assessment and optimization of operational facilities, in particular industrial grinding plants	upon request
9.4 Dimensioning, adjustment, optimization and modeling of grinding plants	upon request
9.5 Investigations on the use of grinding aids and for the reduction of the specific energy consumption	upon request
9.6 Grinding, recycling in contract work	upon request
9.7 Creation of special products in ultra-fine grain sizes	upon request