



Individual Particle analysis

Finding the right particle sizer is easy: Simply send us a sample of your choice – we will conduct a particle analysis and send you an individual analysis report and recommend an instrument suitable for your application. Please complete the form completely and **email it in advance to lab@fritsch.de and send us the material together with the print out of the completed form.**

If you would like to send an additional sample (max. 2 samples) which differs in regards to consistency, desired sample quantity or deviating from the final fineness, please complete a second form for this second sample.

The fields marked with an asterisk* are required fields and have to be completed!

Your information about the material

Name of the material*:

Chemical formula:

Hazardous material*: ☐ yes¹ ☐ no
(*Please enclose safety data sheet!)

☐ explosive ☐ toxic ☐ caustic ☐ oxidising ☐ environmental hazard

☐ easily flammable ☐ harmful to health from:

Do not put in contact with:

Material properties

☐ hygroscopic pH-value:

The material may be dried/heated up to (in °C)

Soluble in:

Other:

Which Particle Sizer should be utilized?

☐ Please select the suitable Particle Sizer for our requirements!

☐ **ANALYSETTE 22 NeXT, Static Light Scattering**

How should the sample be measured?

☐ Please select the suitable method for our application!

☐ Dry measurement – approximately 200 – 500 cm³ of sample material is required.

☐ Dispersion in airflow

☐ Falling Chute

☐ Wet measurement - approximately 5 – 10 cm³ of sample material is required.

Which measuring and dispersion liquids do you recommend?

☐ Water

☐ Water / 0.1 % tetra-sodium diphosphate (Na₄P₂O₇)

☐ Water / surfactant:

☐ Alcohols (e.g. ethanol / 2-propanol):

☐ Benzine (e.g. white spirit):

☐ Alkane (e.g. n-hexane):

☐ Other:

Our laboratory only supplies a limited amount of solvents. For unusual solvents contact us in advance.



How should the material be pre-dispersed?

- ☐ Ultrasonic (duration in minutes):
- ☐ No ultrasonic treatment
- ☐ Other:

Mandatory for measurements in the nano range ($< 1 \mu\text{m}$):

Refractive index of solids:

Absorption coefficient solids:

Refractive index liquid:

☐ **ANALYSETTE 28 ImageSizer, Dynamic Image Analysis**

How should the sample be measured?

- ☐ Please select the suitable method for our application!
- ☐ Dry measurement – approximately $200 - 500 \text{ cm}^3$ of sample material is required.
- ☐ Wet measurement - approximately $5 - 10 \text{ cm}^3$ of sample material is required.

Which measuring and dispersion liquids do you recommend?

- ☐ Water
- ☐ Water / 0.1 % tetra-sodium diphosphate ($\text{Na}_4\text{P}_2\text{O}_7$)
- ☐ Water / surfactant:
- ☐ Alcohols (e.g. ethanol / 2-propanol):
- ☐ Benzine (e.g. white spirit):
- ☐ Alkane (e.g. n-hexane):
- ☐ Other:

Our laboratory only supplies a limited amount of solvents. For unusual solvents contact us in advance.

How should the material be pre-dispersed?

- ☐ Ultrasonic (duration in minutes):
- ☐ No ultrasonic treatment
- ☐ Other:

Particle shape analysis: In which shape parameters are you interested?

- ☐ Aspect ratio
- ☐ Circularity
- ☐ Sphericity
- ☐ Convexity

In which particle sizes are you particularly interested in?

<input type="text"/> μm	<input type="text"/> μm	<input type="text"/> μm
<input type="text"/> μm	<input type="text"/> μm	<input type="text"/> μm

In which volume percentages (< vol. %) are you particularly interested?

<input type="text"/> %	<input type="text"/> %	<input type="text"/> %
<input type="text"/> %	<input type="text"/> %	<input type="text"/> %



Which type of analysis do you conduct?

- ☐ Static Light Scattering
☐ Sedimentation
☐ Other:

- ☐ Image Analysis
☐ Sieving

Additional info about your previous measuring methods:

Remarks:

Would you like to receive an offer?

☐ yes ☐ no

Should not needed material be returned?

☐ yes ☐ no

Your personal information

Salutation*:		Title:	
Last Name*:		First name:	
Company*:	Please supply end customer address	Department:	
Street*:		House No.:	
Postcode*:		City*:	
Country*:		Email*:	
Phone*:			

Customers (owner of sample, individual mailing the sample) are liable for eventual possible damages caused by the sample itself or in conjunction with possible contact materials (poisonous, explosive, corrosive materials etc.) unless expressed notification of this risk was provided in writing (safety data sheet) as well as the risk of accidental loss of the sample.

☐ Yes, I read the [Privacy Policy](#) and consent to that data supplied by me, is electronically processed and saved. My data is used exclusively for this purpose*.

☐ I consent to, that my aforementioned data is saved and used for the mailing of further information about your products, services and events. There will be no disclosure to third parties. I can revoke this consent at any time via e-mail to info@fritsch.de, per letter or via clicking the unsubscribe link contained in the e-mails

Please send the completed form in advance to lab@fritsch.de and send the sample material together with the print out to:

FRITSCH GmbH • Milling and Sizing
 Applications Laboratory
 Industriestrasse 8
 55743 Idar-Oberstein

Telephone +49 67 84 70 0
info@fritsch.de
www.fritsch.de