



Particle analysis – free of charge and non-binding

Finding the right particle sizer is easy: Simply send us a sample of your choice – we will conduct a free of charge particle analysis and send you an individual analysis report and recommend an instrument suitable for your application.

The sample sent to us should be representative for the total quantity to be evaluated, i.e. the sample should be taken utilizing the corresponding sampling or division methods. We need for a test analysis with the Laser Particle Sizer NanoTec for a wet measurement 5 – 10 cm³ of sample material and for dry measurement 50 – 100 cm³ sample material. For a test analysis with the Particle Sizer ImageSizer approximately 200 – 300 cm³ sample material is required.

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. 3 samples) which differs in regards to consistency, desired sample amount or deviating from the final fineness, please complete a second form for this second sample.

Your information about the material

Name of the material*:

Chemical formula:

Hazard material*: yes¹ no

(¹Please include safety data sheet!)

explosive toxic caustic oxidising environmental hazard

easily flammable harmful to health from:

May not be put in contact with:

Material properties

hygroscopic pH-value:

The material may be: embrittled up to °C dried / heated

Soluble in:

Which instrument should be utilized?

Please select the suitable particle sizer for my application for me!

Laser-Particle Sizer ANALYSETTE 22 NanoTec – (0.01 µm – 2100 µm)

Particle Sizer ANALYSETTE 28 ImageSizer – (20 µm – 20 mm, dry measuring)
Please select the measuring range for dry measuring of particle shape and size!
(Please only select one measuring range!)

150 – 20.000 µm 52 – 6.700 µm

28 – 3.500 µm 20 – 2.700 µm

How should the sample be dispersed?

Please select the suitable dispersions method for our task for us!

Wet-measuring

Which measuring and dispersion liquids do you recommend?

Water Water / 0,1 % Na₄P₂O₇ (tetra-Sodium diphosphate)

Water / surfactant:

Alkohols (e.g.ethanol / 2 propanol):

Benzine e.g. white spirit):

Alkane (e.g. n-hexane):

others:



How should the material be pre-dispersed?

Ultrasonic-bath (for _____ min) no ultrasonic treatment

other: _____

Dry measuring

Which type of dry measuring do you recommend?

Dispersion in air current Falling chute

Mandatory for measurements in the nano range (< 1 µm):

Refractive index of solid material: _____

Absorption coefficient solid material: _____

Refractive index for liquid: _____

In which particle sizes are you particularly interested?

_____ µm _____ µm _____ µm

_____ µm _____ µm _____ µm

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

_____ % _____ % _____ %

_____ % _____ % _____ %

Particle shape analysis: In which shape parameters are you interested t? (only possible with A-28!)

Which kind of analysis are you using?

Laser diffraction Image analysis Sedimentation

Sieving other _____

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: _____

Name*: _____ First name: _____

Company*: _____ Please supply end customer info Department: _____

Street _____

Postcode*: _____ City*: _____

Country*: _____ E-Mail*: _____

Telephone*: _____ Fax: _____



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

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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.

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