



## INDIVIDUAL SAMPLE PREPARATION

Finding the right mill is easy: Simply send us a sample of your choice – we will conduct a sample grinding and send you an individual grinding report and recommend an instrument suitable for your application. Please complete the form completely and **email it in advance to [lab@fritsch.de](mailto: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 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\*:**  yes<sup>1</sup>  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:  Humidity:  %

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

Soluble in:

Other:

### Task

Which sample quantity should be ground per charge\*:  g  ml

Max. particle size of the material to be ground:  mm  µm

Which final fineness should be obtained\*?:  % <  mm

*Attention: For obtaining particle sizes < 30 µm, in most cases a wet grinding is required!*  % <  µm

Is wet grinding tolerated?  yes  no

If yes, with which liquids\*?

During dry grinding may – anti-sticking agents or other surface active substances - be added?  yes  no

If yes, which\*?

## Which mill should be utilized?

Please select the suitable mill for our requirements!

Planetary Micro Mill  
P-7  
*premium line*

Planetary Micro Mill  
P-7  
*classic line*

Planetary Mill  
P-5  
*premium line*

Planetary Mill  
P-5  
*classic line*

Planetary Mono Mill  
P-6  
*classic line*

Vario- Planetary Mill  
P-4  
*classic line*

Vibratory Micro Mill  
P-0

Mini-Mill  
P-23

Knife Mill  
P-11

Cutting Mill  
P-15

Universal Cutting Mill  
P-19

Power Cutting Mill  
P-25

Cutting Mill  
Combination  
P- 25 / P-19

Variable Speed  
Rotor Mill  
P-14 *premium line*

Variable Speed  
Rotor Mill  
P-14 *classic line*

Cross Beater Mill  
P-16

Jaw Crusher  
P-1  
*premium line*

Jaw Crusher  
P-1 Modell I  
*classic line*

Jaw Crusher  
P-1 Modell II  
*classic line*

Combination  
P-1/P-13  
*premium line*

Combination  
P-1/P-13  
*classic line*

Disk Mill  
P-13  
*premium line*

Disk Mill  
P-13  
*classic line*

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## Since abrasion is unavoidable, which materials for the grinding tools do you prefer?

SiO<sub>2</sub> agate

Al<sub>2</sub>O<sub>3</sub> sintered corundum

Si<sub>3</sub>N<sub>4</sub> silicon nitride

ZrO<sub>2</sub> zirconium  
oxide

stainless steel

hardened steel

hardened, stainless steel

WC + Co hardmetal tungsten carbide

manganese steel possible with Jaw Crushers and Disk Mills

chromium-free steel possible with Cutting Mills, Jaw Crushers and Vibrating Cup Mill

hard porcelain possible with the Mortar Grinder

pure titanium/TiN-coated steel possible with the Variable Speed Rotor Mills

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Which analysis follows?

According to which norm/standard should be worked? DIN / ISO / ASTM

How was your material previously comminuted and which results can you share with us?

Remarks:

Would you like to receive an offer?  yes  no

Should not needed material be returned?  yes  no

### Your personal information

|              |   |             |                      |
|--------------|---|-------------|----------------------|
| Salutation*: | <input type="text"/>                                    | Title:      | <input type="text"/> |
| Last Name*:  | <input type="text"/>                                    | First name: | <input type="text"/> |
| Company*:    | <input type="text"/> Please supply end customer address | Department: | <input type="text"/> |
| Street*:     | <input type="text"/>                                    | House No.:  | <input type="text"/> |
| Postcode*:   | <input type="text"/>                                    | City*:      | <input type="text"/> |
| Country*:    | <input type="text"/>                                    | Email*:     | <input type="text"/> |
| Phone*:      | <input type="text"/>                                    | Fax:        | <input type="text"/> |

Attention: Customers (owner of sample, individual mailing the sample) are liable for possible damages caused by the sample itself or in conjunction with possible contact materials (toxic, explosive, caustic 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](mailto:lab@fritsch.de) and send the sample material together with the print out to:**

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Applications Laboratory  
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