P-2

MORTAR GRINDER

FRITSCH

TECHNICAL SPECIFICATIONS



EASY WORKING. GREAT RESULTS.

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TECHNICAL DATA

P-2 – Mortar Grinder

Working principle	friction, pressure
Material type	hard, medium-hard, soft, brittle fibrous, abrasive and temperature sensitive
Field of application	pharmacy, foodstuffs, chemistry, mining, metallurgy, geology and mineralogy, glass industry, ceramics industry, agriculture and forestry
Grinding tools	mortar bowl with pestle
Materials of the grinding tools	agate, sintered corundum, hard porcelain, zirconium oxide, stainless steel, hardened steel, hardmetal tungsten carbide
Grinding time setting	digital; h/min, min/s, permanent
Max. feeding size *(depending on material & settings)*	8 mm
Min. sample quantity / Max. sample quantity	10 ml / 190 ml
Final fineness *(depending on material & settings)*	< 10 µm
Grinding process	dry/wet
Mortar bowl speed	50 Hz, ~70 rpm 60 Hz, ~ 80 rpm
Pistil pressure adjustment	vertical & horizontal with scale
Electrical details/torque	100–120 / 200–240 V/1~, 50/60 Hz, 300 W
Emission sound pressure level at the workplace acc. to DIN EN ISO 3746 *(workplace related)*	approx. L_{pAd} = 71 dB
Weight	24 kg
Safety class	IP22 (IP20 when opened)
Standards	CE, RoHS
Dimensions (W x D x H)	31 x 46 x 41 cm

ACCESSORIES

P-2 – Mortar Grinder

Order no.	Article
	**Instrument without grinding set**
02.2000.00	for 100–120 / 200–240 V/1~, 50/60 Hz, 300 W *Voltage indicated by customer is set*
	**Accessories for mortar grinder P-2**
	Grinding sets
46.2050.00	agate
46.2060.00	sintered corundum (99.7 % Al_2O_3)
46.2110.00	hard porcelain
46.2120.00	zirconium oxide
46.2140.00	stainless steel
46.2090.00	hardened steel
46.2080.00	hardmetal tungsten carbide
	Certification
96.0210.00	IQ/OQ documentation (questionnaire format)
	Scrapers
02.1340.16	spare scraper vulkollan (polyurethane)
02.1330.16	scraper EPDM 87 Shore, FDA compliant
02.1325.20	scraper PTFE 50 Shore

APPLICATION EXAMPLES

P-2 – Mortar Grinder

Sample 1: Effervescent tablets (32 g – 8 tablets, 4 g each)

Milling:

- Zirconium oxide grinding set
- Horizontal contact pressure of the pestle: 1st ring visible – 16.5 daN (kg)
  (see operating manual under 6.4.2)
- Vertical contact pressure: 7.5 daN (kg)
- 2 min
- d90 < 200 µm





Sample 2: Chalk (50 g)

Milling:

- Agate grinding set
- Horizontal contact pressure of the pestle: 1st ring visible – 16.5 daN (kg)
  (see operating manual under 6.4.2)
- Vertical contact pressure: 2.5 daN (kg)
- 5 min
- d90 < 100 µm





Sample 3: Tomato

Milling:

- Pre-crushed, embrittled using liquid nitrogen
- Steel grinding set
- Horizontal contact pressure of the pestle: 1st ring visible – 16.5 daN (kg)
  (see operating manual under 6.4.2)
- Vertical contact pressure: 7.5 daN (kg)
- 2 min





Sample 4: Healing clay

Milling:

- Agate grinding set
- Horizontal contact pressure of the pestle: 1st ring visible – 16.5 daN (kg)
  (see operating manual under 6.4.2)
- Vertical contact pressure: 7.5 daN (kg)
- 5 min of suspension grinding in water





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Contact person:

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for a non-binding consultation or individual test grinding to identify your ideal device configuration and optimal grinding parameters.

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