



designed for scientists



## A 11 basic Analytical mill

/// Data Sheet

Batch mill for 2 different grinding procedures:

Impact grinding of hard, brittle or non-elastic grinding materials with high-grade stainless steel beater. This beater can be used for a Mohs hardness up to 6 (incl. with delivery).

Cutting grinding for pulverizing soft, fibrous materials with a cutting blade (not incl. with delivery).

- Moist and gluey materials can be pulverized by adding water
- Grinding chamber made of Tefcel (PTFE, glass fiber-reinforced) with stainless steel inlet (1.4571), useful volume 80 ml (incl. with delivery). For embrittlement of grinding materials with liquid nitrogen in the grinding chamber
- Optionally, a 250 ml grinding chamber is available



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## Technical Data

|                                                                 |                        |
|-----------------------------------------------------------------|------------------------|
| Process type                                                    | batch                  |
| Operating principle                                             | cutting/impact         |
| Motor rating input [W]                                          | 160                    |
| Motor rating output [W]                                         | 100                    |
| Speed max. [rpm]                                                | 28000                  |
| Circumferential speed max. [m/s]                                | 53                     |
| Useable volume max. [ml]                                        | 80                     |
| Feed hardness max. [Mohs]                                       | 6                      |
| Feed grain size max. [mm]                                       | 10                     |
| Material beater/cutter                                          | stainless steel 1.4034 |
| Material milling chamber                                        | stainless steel 1.4571 |
| Power-ON time [min]                                             | 1                      |
| Power-OFF time [min]                                            | 10                     |
| Mill feed can be cooled in milling chamber with dry ice         | yes                    |
| Mill feed can be cooled in milling chamber with liquid nitrogen | yes                    |
| Dimensions (W x H x D) [mm]                                     | 85 x 240 x 85          |
| Weight [kg]                                                     | 1.5                    |
| Permissible ambient temperature [°C]                            | 5 - 40                 |
| Permissible relative humidity [%]                               | 80                     |
| Protection class according to DIN EN 60529                      | IP 43                  |
| Voltage [V]                                                     | 220 - 230 / 100 - 115  |
| Frequency [Hz]                                                  | 50/60                  |
| Power input [W]                                                 | 160                    |