

矿石与石英、黏土的混合物

行业:	Geology / mineralogy
进料尺寸:	< 2 mm
最终精度:	< 100 µm
样品量:	1-2 g
研磨建议:	Desired Mini-Mill PULVERISETTE 23 is capable to comminute the samples. By dry grinding, only a certain level of fineness can be reached. For best grinding results, grinding in suspension is recommended.



MINI-MILL PULVERISETTE 23

speed setting: 50 Hz

10 ml grinding bowl made of zirconium oxide (ZrO₂)
 + 1x grinding ball with 15 mm Ø made of zirconium oxide

Feed quantity:	2 g of sample 2555
Feed Size:	< 2 mm
Grinding time:	3 min
Final fineness:	d ₉₉ < 77 µm (d ₅₀ < 6,9 µm)
Comments:	With this trial, we used grinding equipment made of zirconium oxide in case that metal abrasion might disturb following analysis. Also with zirconium oxide, such samples can be ground. With a density of ~ 5,7 g/ml instead of 7,8 g/ml, equal grinding results will need a little more time.

After a total of 3 minutes, no large particles can be felt when sample will be rubbed between thumb and pointing finger. We determined a fineness of d₅₀ < 6,9 µm with d₉₉ < 77 µm. 99,9 % of sample has been determined as < 100 µm as requested.

In this case, sample wasn't sticking that strongly to bowl or grinding balls. Probably still longer dry grinding time is plausible to improve the achieved grinding result.



Sample 2555 after a total of 3 minutes of grinding. As seen in the lid of the bowl, sample is not sticking that strongly.