预粉碎的最终精矿样本

行　　业：	Geology / mineralogy
进料尺寸：	< 10mm
最终精度：	99% < 40µm
样 品 量：	
研磨建议：	

PLANETARY MONO MILL PULVERISETTE 6 CLASSIC LINE

rpm: 650

250 ml tempered steel bowl + 15x20 mm temp. steel balls.

Feed quantity:	244 g (125 ml)*1
Feed Size:	6 mm
Grinding time:	9 min
Final fineness:	d90 < 22,3 µm 99,4% < 40 µm*2
Comments:	*1: 125ml is the max Volume for the 250ml bowl, higher amounts are only grindable inside of the 500ml bowl.

*2: See particle size analysis with ANALYSETTE 22 NanoTec on Meas. No. 7908.

Result after 1min on Meas.No. 7898 (d90 < 139µm; 64,4% < 40µm)

Result after 3min on Meas.No. 7901 (d90 < 78,0µm; 75,5% < 40µm)

Result after 5min on Meas.No. 7903 (d90 < 29,7µm; 96,0% < 40µm)

Result after 7min on Meas.No. 7905 (d90 < 29,5µm; 96,6% < 40µm)

After the grinding of 9min in trial 2, respectively 12min on trial 1 the sample started lightly to stick. It was very easy to brush of attached samples from the wall of the bowl. A grinding for a view more minutes is still possible. After a special level of fineness (<30-40µm), the sample starts to stick very hard to the ball and balls in dry conditions.

By grinding directly without the breaks for measuring the particle distribution, the fineness should be better (without the acceleration phase until the revolutions per minute get 650RPM).

It is also possible to grind the sample with a 500ml bowl and 25 of 20mm balls to get a fine result within a faster period of time.