### Task:

**Application field:** Chemistry / Plastics  
**Material:** Super absorbent Polymer (SAP)  
**Feed size:** 2-4 mm  
**Feed quantity:** 1000 g  
**Material specification(s):** hard brittle, dry  
**Customer requirement(s):** < 100 µm, research project  
**Subsequent analysis:** Not defined

### Solution:

**Selected instrument(s):** ZM 200 Ultra Centrifugal Mill  
**Configuration(s):**  
- Push-fit rotor of stainless steel with 12 teeth;  
- Distance sieve of stainless steel with trapezoid holes 1 mm;  
- Cyclone for ZM 200 with passage receptacle and holder, with receptacle 5 l  
**Parameter(s):** 18000 rpm  
**Time:** 5 min.  
**Achieved result(s):** d50 < 100 µm  
**Remark(s):** Additional tests were also carried out with a 0.5 and 0.25 mm ring sieve.  
**Recommendation:** For the grinding of hard brittle super absorbent our Ultra Centrifugal Mill ZM 200 is suitable under the above mentioned conditions.

The application report is based solely on the processing of the available sample material in the indicated amount. No legal claims shall be derived from this test report.  
Subject to technical modification and errors.  
© Retsch GmbH - www.retsch.com - lab@retsch.com