### Task:

**Application field:** Building Materials  
**Material:** Calcium oxide (CaO)  
**Feed size:** 0-10 mm  
**Feed quantity:** 200 g (per batch)  
**Material specification(s):** medium-hard  
**Customer requirement(s):** < 200 µm  
**Subsequent analysis:** Reactivity test, determination of active CaO content DIN EN 459-2, ASTM C25-99

### Solution:

**Selected instrument(s):** ZM 200 Ultra Centrifugal Mill  
**Configuration(s):** Push-fit rotor of stainless steel, with 24 teeth;  
Ring sieve of stainless steel, Conidur holes 0.5 and 0.25 mm  
**Parameter(s):** Revolution speed 18000 rpm  
**Time:** 30 s (per sample)  
**Achieved result(s):**  
- 65 % < 100 µm (ring sieve 0.5 mm)  
- 93 % < 100 µm (ring sieve 0.25 mm)  
**Remark(s):** The fine grinding can be done in one step.  
**Recommendation:** For fine grinding of lime stone the Ultra Centrifugal Mill ZM 200 is suitable under the above mentioned conditions.