### Task:

**Application field:** Building Materials  
**Material:** Quartz Sand, Raw Mix, Silica  
**Feed size:** 0-2 mm  
**Feed quantity:** 2 g (per batch)  
**Material specification(s):** hard brittle, abrasive  
**Customer requirement(s):** < 32 µm for x-ray  
**Subsequent analysis:** x-ray Fluorescence Analysis determination of different elements

### Solution:

**Selected instrument(s):** MM 400 Mixer Mill  
**Configuration(s):** Grinding jar with screwable cover 25 ml of tungsten carbide 6 grinding balls of tungsten carbide, Ø 10 mm  
**Parameter(s):** Frequency 30/s  
**Time:** 3 min. (per batch)  
**Achieved result(s):** 97 % < 32 µm, sieve cut done by wet sieving  
**Remark(s):** To avoid agglomerations of the material during grinding, 5 - 6 drops of methanol have been added to the samples.  
**Recommendation:** For fine grinding of different raw materials the Mixer Mill MM 400 is suitable under the above mentioned conditions.