**Task:**

**Application field:** Building Materials

**Material:** Bentonite

**Feed size:** 0 - 6 mm

**Feed quantity:** 60 g

**Material specification(s):**
- medium-hard, dry

**Customer requirement(s):** < 63 µm, spectral analysis

**Subsequent analysis:** X-ray Fluorescence Analysis

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**Solution:**

**Selected instrument(s):** PM 100 CM Planetary Ball Mill

**Configuration(s):**
- Grinding Jar 250 ml, of stainless steel
- Grinding Balls 12 x 20 mm, of stainless steel

**Parameter(s):**
- Speed: 580 rpm

**Time:** 10 min.

**Achieved result(s):** 85 % < 63 µm

**Remark(s):** To avoid sticking and agglomeration effects, 5 – 8 drops of methanol were added to the sample before grinding.

**Recommendation:** For fine grinding of minerals the Planetary Ball Mill PM 100 CM is suitable under the above mentioned conditions.