**Task:**

**Application field:** Environment

**Material:** Ash from a combustion process of biomass, 2 samples

**Feed size:** 0-20 mm (inhomogeneous)

**Feed quantity:** 150 g (per batch)

**Material specification(s):** hard brittle, dry

**Customer requirement(s):** < 150 µm for determination of heavy metals

**Subsequent analysis:** Heavy Metal Analysis, Aqua Regia Method

**Solution:**

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

**Configuration(s):** Grinding jar "comfort" zirconium oxide 500 ml; 8 grinding balls, zirconium oxide ø 30 mm

**Parameter(s):** Revolution speed 430 rpm

**Time:** 5 min. (per sample)

**Achieved result(s):** 92 % < 100 µm
95 % < 150 µm

**Remark(s):**

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