### Task:

**Application field:** Building Materials

**Material:** Used sand, secondary raw material, additional to limestone and clay for the cement production

**Feed size:** 0-2 mm

**Feed quantity:** 120 g (per batch)

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

**Customer requirement(s):** < 32 µm

**Subsequent analysis:** ICP Inductive Coupling Plasma

### Solution:

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

**Configuration(s):**
- Grinding jar, 250 ml, Zirconium;
- 14 grinding balls, Ø 20 mm Zirkonium

**Parameter(s):** Revolution speed 450 rpm

**Time:** 10 min.

**Achieved result(s):**
- 95 % < 63 µm
- 75 % < 32 µm

**Remark(s):** If the end fineness is not fine enough, it is possible to elongate the grinding time up to 15 min. or increase the revolution up to 500 rpm,

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