Task:

**Application field:** Environment / Recycling

**Material:** Soil

**Feed size:** 2 mm

**Feed quantity:** 30 g

**Material specification(s):** dry

**Customer requirements(s):** 212 µm

**Subsequent analysis:** XRF - X-ray Fluorescence Analysis
ICP-MS - Mass Spectroscopy
Heavy metals

Solution

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

**Configuration(s) Item nos.:**
1 x PM 100, 230 V, 50/60 Hz
1 x Grinding jar "comfort", tungsten carbide, 80 ml
5 x Grinding ball, tungsten carbide, 20 mm Ø

Please note: Other electrical versions of the instrument(s) are available with different item numbers.

**Parameter(s):** Revolution speed: 200 rpm

**Time:** 1 min

**Achieved result(s):** d90: < 212 µm

**Remark(s):** The sample was pre-crushed with a Jaw Crusher BB 200.

**Recommendation:** The Planetary Ball Mill PM 100 is suitable to grind the sample material under the above mentioned conditions.

The application report is based solely on the processing of the available sample material in the indicated amount. No legal claims shall be derived from this test report. Subject to technical modification and errors.
Pictures of the sample:

Picture 1: Pre-crushed sample

Picture 2: Sample after grinding process with PM 100