**Task:**

**Application field:** Agriculture

**Material:** Tobacco leaves

**Feed size:** 0-30 mm (length of fiber)

**Feed quantity:** 15 g (per jar)

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

**Customer requirement(s):** < 0.5 -1 mm

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

**Solution:**

**Selected instrument(s):** PM 400 Planetary Ball Mill

**Configuration(s):**
- 2 grinding jars 250 ml Agate
  - 1. Jar: 14 grinding balls, Ø 20 mm Agate
  - 2. Jar: 5 grinding balls, Ø 30 mm Agate

**Parameter(s):** Revolution speed 280 rpm

**Time:** 3 min.

**Achieved result(s):**
- Sample 1: < 2000 µm with grinding balls Ø 20 mm)
- Sample 2: < 100 µm with grinding balls Ø 30 mm)

**Remark(s):**

**Recommendation:** For sample preparation of dry biology materials the Planetary Ball Mill PM 400 is suitable under the above mentioned conditions.