**Task:**

- **Application field:** Environment
- **Material:** Matured forest, wood
- **Feed size:** 0-100 mm (scale of wood)
- **Feed quantity:** 500 g (50 g for the analysis)
- **Material specification(s):** fibrous, dry
- **Customer requirement(s):** < 2 mm for determination of chlorine, fluorine, PCB acc. to the mutared forest standard (19.06.02)
- **Subsequent analysis:** PCB Polychloritic Biphenyles

**Solution:**

- **Selected instrument(s):**
  - SM 100 Cutting Mill
  - RT Sample Splitter
- **Configuration(s):**
  - Standard hopper;
  - Bottom sieves of stainless steel, square holes 6 mm;
  - Bottom sieves of stainless steel, trapezoid holes 1.5 mm;
  - Ring-type filter with trapezoid hole body for collecting receptacle 5 l
- **Parameter(s):** Revolution speed appx. 1500 rpm
- **Time:** 10 min. (for pre and fine grinding)
- **Achieved result(s):** < 2 mm as required
- **Remark(s):**
  - The sample preparation was done in following operation steps:
    1. Pre cutting of the total sample (500 g) with SM 100 using a bottom sieve of 6 mm.
    2. Sample dividing by a sample splitter RT 25 down to appx. 50g
    3. Fine grinding of the single sample in SM 100 using a bottom sieve of 1.5 mm

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.

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Recommendation: For pre cutting and fine grinding of matured forest the Cutting Mill SM 100 is suitable under the above mentioned operating process.