### Task:

**Application field:** Environment

**Material:** Refuse derived fuels (paper, foils, etc. from waste)

**Feed size:** 10-30 mm

**Feed quantity:** 2000 g total quantity

**Material specification(s):** soft, moist, elastic

**Customer requirement(s):** < 0.5 mm determination of elements; heavy metals

**Subsequent analysis:** Net Calorific Value, MW Micro Wave Digestion

### Solution:

**Selected instrument(s):** SM 2000 Heavy-Duty Cutting Mill

**Configuration(s):**
- Bottom sieve with 6 mm square holes
- Bottom sieve with 1.0 mm trapezoid holes
- Ring-type filter with trapezoid hole body

**Parameter(s):** Revolution speed 750 min-1

**Time:** 5 min.

**Achieved result(s):** predominantly < 0.5 mm

**Remark(s):** The sample preparation was done in two steps:
1. grinding the total sample in the SM 2000 using a bottom sieve of 6 mm
2. grinding a representative single sample (200 ml) using a bottom sieve of 1 mm

**Recommendation:** For the grinding of refuse derived fuels our Heavy-Duty Cutting Mill SM 2000 is suitable 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.
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