**Task:**

**Application field:** Environment

**Material:** Combustible derived refuse (CDR)

**Feed size:** 20-100 mm

**Feed quantity:** 700 g

**Material specification(s):** elastic, tough

**Customer requirement(s):** < 1 - 2 mm

**Subsequent analysis:** X-Ray Fluorescence Analysis

**Solution:**

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

*As the SM 2000 was discontinued we recommend to use the SM 300 now*

**Configuration(s):** Standard hopper for SM 100 / SM 2000; Bottom sieves, square holes 6 mm and 2 mm

**Parameter(s):** Revolution speed 750 rpm

**Time:** 5 min.

**Achieved result(s):** predominantly < 2 mm

**Remark(s):** The sample preparation and grinding with the SM 2000 was done in two steps:
1. Pre-cutting of the total quantity with bottom sieve 6 mm.
2. Fine grinding of a representative single sample with bottom sieve 2 mm. Pre-cooling of the sample with liquid nitrogen or dry ice is not necessary.

**Recommendation:** For sample preparation of different secondary fuels the Heavy Duty Cutting Mill SM 2000 is suitable under the above mentioned conditions.
Pictures of the sample

**Fig. 1:** Original sample

**Fig. 2:** Original sample

**Fig. 3:** After grinding with bottom sieve 6 mm

**Fig. 4:** After grinding with bottom sieve 2 mm