Task:

Application field: Environment

Material: Electronic boards

Feed size: 40 x 50 mm

Feed quantity: 20 g

Material specification(s): abrasive, dry

Customer requirement(s): < 1 mm, Determination of chlorine, PCB and furane

Subsequent analysis: ICP-MS Mass Spectroscopy

Solution:

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

As the SM2000 was discontinued we recommend to use the SM300 now

Configuration(s): SM 2000 with cutter disk rotor, base frame, bottom sieve of stainless steel, square holes 6 mm;
bottom sieve of stainless steel, trapezoid holes 1 mm.

Parameter(s): Rotational speed: 750 rpm

Time: 30 s (per batch)

Achieved result(s): predominantly < 1 mm

Remark(s): The disintegration was done in two 2 steps:
1. using a bottom sieve of 6 mm,
2. Fine grinding with bottom sieve 1 mm.

Recommendation: For cutting and grinding of different electronic boards the 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.
Subject to technical modification and errors.
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Pictures of the sample

Fig. 1:  

Fig. 2: