## Task:

**Application field:** Agriculture  
**Material:** Tobacco leaves  
**Feed size:** 10-120 mm  
**Feed quantity:** 50 g  
**Material specification(s):** fibrous, dry  
**Customer requirement(s):** Homogeneous powder, 0.5 – 1 mm  
**Subsequent analysis:** GC Gas Chromatography

## Solution:

**Selected instrument(s):** SM 100 Cutting Mill  
**Configuration(s):** Standard hopper; Bottom sieves of stainless steel, square holes 2 mm; Ring-type filter with trapezoid hole body for collecting receptacle 5 l  
**Parameter(s):** Speed: 1500 rpm  
**Time:** 2 min. (per batch)  
**Achieved result(s):** predominantly < 1 mm fibrous filters  
**Remark(s):** For this application, the grinding result is the max. possible fineness which can be reached by the Cutting Mill SM 100. For further fine grinding steps, only the Ultra Centrifugal Mill ZM 200 is suitable for this application.  
**Recommendation:** For pre-grinding of tobacco leaves and cigarette filters the Cutting Mill SM 100 is suitable under the above mentioned conditions.

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