

Task:**Application field:** Agriculture**Material:** Feather of chicken and ducks, total quantity approx. 200 g**Feed size:** 0-10 mm (after pre cutting in SM 100)**Feed quantity:** 30 g (for fine grinding)**Material specification(s):** fibrous, bulky**Customer requirement(s):** < 10 - 100 µm, 1 kg/h**Subsequent analysis:** not defined**Solution:****Selected instrument(s):** Cutting Mill SM 100
Planetary Ball Mill PM 100**Configuration(s):** Long stock hopper SM;
Bottom sieve SM square holes 6 mm, stainless steel;
Ring-type filter with trapezoid hole body for collecting receptacle 5 litres;
PM - grinding jar "comfort" zirconium oxide 250 ml;
5 grinding balls zirconium oxide ø 30 mm**Parameter(s):** Revolution speed of PM 100 = 400 rpm**Time:** 30 min. (for fine grinding)**Achieved result(s):** 80 % < 100 µm**Remark(s):** The pre cutting of the total quantity was done in the Cutting Mill SM 100, bottom sieve 6 mm.
For fine grinding of a representative sample, the Planetary Ball Mill PM 100 was used.**Recommendation:** For sample preparation of different feather material, the

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Cutting Mill SM 100 is suitable for pre cutting and the Planetary Ball Mill PM 100 for fine grinding under the above mentioned conditions.

Pictures of the sample



Fig. 1: Original feather sample



Fig. 2: Original feather sample

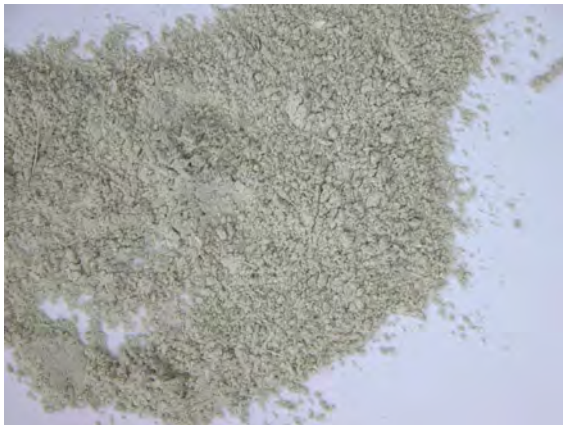


Fig. 3: After fine grinding in PM 100

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