Task:

Application field: Environment

Material: Wood chips with rest humidity

Feed size: 0-80 mm

Feed quantity: 5000 g total quantity, (500 g for the analytic)

Material specification(s): fibrous, moist

Customer requirement(s): < 2 - 3 mm

Subsequent analysis: Moisture Content

Solution:

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

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

Configuration(s): Heavy-Duty Cutting Mill SM 2000 for 3/N~ 400 V, 50 Hz, rotor speed 695 min⁻¹, Standard hopper SM; Ring-type filter with trapezoid hole body for collecting receptacle 5 litres; Bottom sieve square holes 6 and 2 mm, stainless steel;

Parameter(s): speed 695 U/min.

Time: 5 min.

Achieved result(s): < 2 - 3 mm

Remark(s): For determination of the rest humidity the Rabid Dryer TG 100 was used. After a drying time of 10 min. at 105° C, a rest humidity of 13 % was detected.

Recommendation: For pre cutting of wood pieces the Heavy Duty Cutting Mill SM 2000 is suitable under the above mentioned conditions.
Pictures of the sample

Fig. 1: Pre-cutted material with SM 2000 and bottom sieve 6 mm

Fig. 2: Pre-cutted material with SM 2000 and bottom sieve 2 mm