### Task:

**Application field:** Agriculture

**Material:**
- 4 vegetal samples (alfalfa, lucerne, granule) ALF, BME

**Feed size:** 0-20 mm

**Feed quantity:** 250 g (per batch)

**Material specification(s):** fibrous, medium-hard

**Customer requirement(s):** < 0.5 mm, and sample dividing in PT 100

**Subsequent analysis:** NIR Near Infra Red Spectroscopy

### Solution:

**Selected instrument(s):** Cutting Mill SM 100
- Sample Divider PT 100

**Configuration(s):**
- Bottom sieve trapezoid holes 0.5 mm, stainless steel;
- Ring-type filter with trapezoid hole body for collecting receptacle 5 litres; Standard hopper

**Parameter(s):** SM 100: Revolution speed 1500 rpm

**Time:** 5 min. (per sample)

**Achieved result(s):** predominantly < 0.5 mm, also different to the breaking behavior of the material

**Remark(s):**
- The following sample dividing was done with the PT 100, dividing head with 8 outlets.
- After the diving process, two samples on the opposite have been mixed together to receive 4 single samples of each material.

**Recommendation:** For sample preparation of different agriculture materials the Cutting Mill SM 100 and the Sample Divider PT 100 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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