Task:

**Application field:** Chemistry / Plastics

**Material:** Superabsorbing polymer

**Feed size:** 0-1 mm

**Feed quantity:** 120 g (per jar)

**Material specification(s):** hard brittle, hygroscopic

**Customer requirement(s):** < 1 µm in PM 400 with stainless steel jars

**Subsequent analysis:** Particle Size Analysis

Solution:

**Selected instrument(s):** Planetary Ball Mill PM 400

**Configuration(s):** 2 x Grinding jar "comfort" stainless steel 250 ml; 125 ml
Grinding balls stainless steel 10 mm ø per jar

**Parameter(s):** Revolution speed 350 rpm

**Time:** 30 min.

**Achieved result(s):** d50 = 12.2 µm

**Remark(s):** A higher fineness only can be achieved with wet grinding

**Recommendation:** For fine grinding of superabsorbing polymers the Planetary Ball Mill PM 400 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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