### Task:

**Application field:** Chemistry / Plastics  
**Material:** Nanotube in oil; 2 samples  
**Feed size:** 200 - 500 µm  
**Feed quantity:** 25 ml  
**Material specification(s):** oily  
**Customer requirement(s):** < 1 µm no further informations  
**Subsequent analysis:** not defined

### Solution:

**Selected instrument(s):** Planetary Ball Mill PM 200  
**Configuration(s):** Grinding jar "comfort" zirconium oxide 50 ml  
30 ml grinding balls Ø 3 mm (= 110 g)  
**Parameter(s):** Revolution speed 480 rpm  
**Time:** 2 h  
**Achieved result(s):** Evaluation by the customer.  
Particle measurement by Laser diffraction was not possible, because the samples could not be dispersed in a liquid.  
**Remark(s):**  
**Recommendation:** For fine and colloidal grinding the Planetary Ball Mill PM 200 is suitable under the above mentioned conditions.