## Task:

**Application field:** Environment  
**Material:** Wood pieces  
**Feed size:** 1-30 mm  
**Feed quantity:** 250 g  
**Material specification(s):** moist  
**Customer requirement(s):** < 1 mm for warm extraction of tannin  
**Subsequent analysis:** HPLC High Performance Liquid Chromatography

## Solution:

**Selected instrument(s):** SM100 Cutting Mill  
**Configuration(s):** Bottom sieves of stainless steel, square holes 2 mm;  
Ring-type filter with trapezoid hole body for collecting receptacle 5 l  
**Parameter(s):** 1450 rpm  
**Time:** 5 min.  
**Achieved result(s):** appx. < 1 mm, see sample  
**Remark(s):** The original material must be dried before grinding, at 105 °C.  
Wet or moist samples will stick in the grinding chamber and block the bottom sieve.  
**Recommendation:** For sample preparation of dry wood pieces the Cutting Mill SM 100 is suitable under the above mentioned conditions.