Task:

Application field: Environment
Material: Rubber tyre rest (+ high content of textile fibres)
Feed size: 0-20 mm
Feed quantity: 80 g
Material specification(s): elastic, fibrous
Customer requirement(s): < 2 mm, required grinding in SM 100
Subsequent analysis: not defined

Solution:

Selected instrument(s): Cutting Mill SM 100
Configuration(s): Standard hopper SM;
Bottom sieve SM square holes 4 mm, stainless steel;
Ring-type filter with trapezoid hole body for collecting receptacle 5 litres
Parameter(s): Revolution speed approx. 1500 rpm
Time: 5 min.
Achieved result(s): predominantly < 2 mm with fibres parts
Remark(s): The total sample was first pre-cooled with liquid nitrogen, only in that way a grinding of rubber is possible.
If bottom sieves of a hole size < 4 mm will be used in this case the material will stick in the grinding chamber.
Recommendation: For pre cutting of tyre rubber wit textile fibres the Cutting Mill SM 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.
© Retsch GmbH - www.retsch.com - lab@retsch.com