



Cellulose

Application

Market segment:	Chemistry / Plastics
Material:	Cellulose, paper and paper pulp cake, 2 samples
Feed size:	0-30 mm (paper snippet)
Feed quantity:	100 ml (per sample)
Material specification(s):	Fibrous, dry
Customer requirement(s):	< 43 μm for XRF analysis
Subsequent analysis:	X-ray Fluorescence Analysis

Solution

Selected instrument(s):	LM PBM-1 Planetary Ball Mill
Configuration(s):	Grinding jar 250 ml, Zirconia; In each jar 5 grinding balls \varnothing 30 mm Zirconia
Working settings:	Revolution speed 320 rpm
Time:	25 min. (per sample)
Achieved result(s):	< 100 μm 70 % < 63 μm , sufficient for X-ray analysis
Remark(s):	Extension of the grinding time can higher the end fineness.
Recommendation(s):	For sample preparation of cellulose materials, the Planetary Ball Mill is suitable under the above mentioned conditions.



Paper

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