



## Gypsum

### Application

<b>Market segment:</b>	Construction Materials
<b>Material:</b>	Gypsum, clinker, calcit
<b>Feed size:</b>	0-5 mm
<b>Feed quantity:</b>	100 g (per batch)
<b>Material specification(s):</b>	Medium-hard, hygroscopic
<b>Customer requirment(s):</b>	90 % < 45 µm
<b>Subsequent analysis:</b>	X-ray Fluorescence Analysis

### Solution

<b>Selected instrument(s):</b>	Planetary ball Mill
<b>Configuration(s):</b>	2 grinding jars 250 ml stainless steel; per jar 14 grinding balls Ø 20 mm stainless steel
<b>Working settings:</b>	Revolution speed 320 rpm
<b>Time:</b>	10 min.
<b>Achieved result(s):</b>	92 % < 45 µm
<b>Remark(s):</b>	The feed quantity is a composition of: 80 % clinker - 15 % calcit - 5 % gypsum To avoid agglomeration effects during grinding, 8 - 10 drops of methanol have been added.
<b>Recommendation(s):</b>	Planetary ball Mill is suitable under the above mentioned conditions.



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