Task:

Application field: Ceramics

Material: Clay mixture, aluminium silicate

Feed size: 0-10 mm (agglomerates)

Feed quantity: 200 g per sample

Material specification(s): dry, hard

Customer requirement(s): < 63 µm for production of pressed pellets to determine the burning colour

Subsequent analysis: not defined

Solution:

Selected instrument(s): PM 100 CM Planetary Ball Mill

Configuration(s): Grinding jar 500 ml Standard, sintered alumina
8 grinding balls of sintered alumina, 30 mm Ø

Parameter(s): Revolution speed 500 rpm

Time: 10 min. per batch

Achieved result(s): 95 % < 63 µm

Remark(s): To avoid sticking effects of the material during grinding, it is advantageous to add 5 - 8 drops of methanol to the sample before starting grinding.

Recommendation: For sample preparation of different clay samples, the Planetary Ball Mill PM 100 CM is suitable under the above mentioned conditions.