Task:

Application field: Building Materials

Material: Brick material, total quantity appx. 1500 g

Feed size: 0-8 mm (after pre-crushing)

Feed quantity: 100 g

Material specification(s): Hard, brittle, dry

Customer requirement(s): < 100 µm for x-ray analysis

Subsequent analysis: X-ray Fluorescence Analysis

Solution:

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

Configuration(s): Grinding jar 250 ml of stainless steel;
12 grinding ball, Ø 20 mm of stainless steel

Parameter(s): BB 100: gap size 2 - 4 mm
PM 100 CM: revolution 500 rpm

Time: 5 min. (for fine grinding in PM 100 CM)

Achieved result(s): 90 % < 100 µm

Remark(s): The total sample of 1500 g with a maximum feed size of
50 mm was pre-crushed in the Jaw Crusher BB 100.
A representative single sample was used for fine grinding in
PM 100 CM.

Recommendation: For sample preparation of hard and brittle materials the
Jaw Crusher BB 100 and the Planetary Ball Mill PM 100 CM
are 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.
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