Task:

Application field: Glass / Ceramics

Material: Lantern slide, coloured glass, original feed size 80 x 80 mm

Feed size: 0-2 mm (after pre-crushing with BB 51)

Feed quantity: 100 g (for fine grinding 50 g)

Material specification(s): hard brittle

Customer requirement(s): < 40 µm, < 2 mm

Subsequent analysis: for different melting tests

Solution:

Selected instrument(s): BB 51 Jaw Crusher
PM 100 CM Planetary Ball Mill

Configuration(s): Grinding jar 125 ml, Type "C", Zirconia;
6 grinding balls, 20 mm Ø Zirconia

Parameter(s): Gap size of the Laboratory Jaw Crusher BB 51 = 0.7 mm
Revolution speed of the Planetary Ball Mill PM 100 CM = 450 rpm

Time: 30 min. (only for fine grinding)

Achieved result(s): Sample 1: 50 % fraction 630 - 2000 µm
Sample 2: 80 % < 40 µm

Remark(s): The total sample quantity was first pre-crushed in the
Laboratory Jaw Crusher BB 51.
Sieving the fraction of 630 - 2000 µm.
The fine fraction < 630 µm was used for fine grinding in the
Planetary Ball Mill PM 100 CM.

Recommendation: For sample preparation of hard and brittle glass material
the Laboratory Jaw Crusher BB 51 and the Planetary Ball Mill

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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Mill PM 100 CM are suitable under the above mentioned conditions.