Task:

Application field: Glass / Ceramics

Material: Aluminium oxide, pieces of flux, up to 30 mm

Feed size: 0-3 mm (after pre crushing in Jar Crusher BB 51)

Feed quantity: 700 g

Material specification(s): hard brittle, abrasive

Customer requirement(s): < 100 µm

Subsequent analysis: not defined

Solution:

Selected instrument(s): Planetary Ball Mill PM 400

Configuration(s): Grinding jar "comfort" zirconium oxide 500 ml;
1. Jar with 8 grinding balls zirconium oxide ø 30 mm;
2. Jar with 26 grinding balls zirconium oxide ø 20 mm

Parameter(s): speed 320 rpm

Time: 10 min.

Achieved result(s):
1. 85 % < 100 µm
2. 90 % < 100 µm

Remark(s):

Recommendation: For fine grinding of different hard and brittle materials the Planetary Ball Mill PM 400 is suitable under the above mentioned conditions.