**Task:**

- **Application field:** Glass / Ceramics
- **Material:** Ceramic slurry, dried coating suspension
- **Feed size:** 0-15 mm (agglomerated splints)
- **Feed quantity:** 50 g (per test)
- **Material specification(s):** agglomerate, medium-hard
- **Customer requirement(s):** Desagglomeration down to < 60 µm for the subsequent XRF
- **Subsequent analysis:** X-ray Fluorescence Analysis

**Solution:**

- **Selected instrument(s):** PM 400 Planetary Ball Mill
- **Configuration(s):** Grinding jar 250 ml zirconia (YTZ); 2 x grinding ball ø 30 mm zirconia (YTZ); or 1 x grinding ball ø 40 mm zirconia (YTZ).
- **Parameter(s):** Revolution speed 320 rpm
- **Time:** 2 min.
- **Achieved result(s):** < 63 µm
- **Remark(s):** The initial sample material already has an average grain size of 10 µm which is bonded in agglomerates (splints). The goal of these tests in the first instance is to separate those agglomerates by a specific mechanical load.

**Recommendation:** For sample preparation of dry ceramics for the XRF we recommend our Planetary Ball Mill PM 400 according to 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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