**Task:**

**Application field:** Environment

**Material:** Limestone, drilling core

**Feed size:** 0-10 mm (after pre-crushing in jaw crusher BB 200)

**Feed quantity:** 120 g (per batch)

**Material specification(s):** medium-hard

**Customer requirement(s):** < 63 µm

**Subsequent analysis:** X-ray Fluorescence Analysis

---

**Solution:**

**Selected instrument(s):**

- RS 200 Vibratory Disc Mill
- BB 200 Jaw Crusher

**Configuration(s):** Gridding set chrome steel 100 ml

**Parameter(s):**

- Revolution speed of Vibratory Disc Mill 1400 rpm
- Gap size of Jaw Crusher 10 - 12 mm

**Time:** 40 s

**Achieved result(s):**

- Grinding time 40 s: 90 % < 63 µm, 40 % < 40 µm
- Grinding time 120 s: 100 % < 63 µm, 86 % < 40 µm

**Remark(s):**

Pre-crushing of the total drilling core in Jaw Crusher BB 200. The gap size should not be chosen smaller than 10 mm, because of sticking effects of the material in the chamber. The fine grinding of a representative single sample is done in the Vibratory Disc Mill RS 200.

**Recommendation:**

For sample preparation of drilling cores and similar materials, the Jaw Crusher BB 200 and the Vibratory Disc Mill RS 200 is 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. © Retsch GmbH - www.retsch.com - lab@retsch.com