



Quartz

Application

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| Market segment: | Building Materials |
| Material: | Quartz |
| Feed size: | 0-5 mm after pre-crushing |
| Feed quantity: | Laboratory sample 950 g |
| Material specification(s): | Hard, brittle |
| Customer requirement(s): | < 4 mm, < 100 µm for analytical process |
| Subsequent analysis: | Not defined |

Solution

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| Selected instrument(s): | LMC100D Jaw Crusher, LM PBM-1 Planetary Ball Mill |
| Configuration(s): | Grinding jar, 250 ml, Zirconia (YTZ) 5 grinding balls Ø 30 mm, Zirconia (YTZ) |
| Working settings: | Gap size LMC100D: 8 mm Revolution LM PBM-1: 500 rpm |
| Time: | 15 min. (for fine grinding in LM PBM-1) |
| Achieved result(s): | 98 % < 100 µm |
| Remark(s): | Pre-crushing of the total sample (950 g) in LMC100D Jaw Crusher. Fine grinding of a representative single sample of approx. 100 g in the LM PBM-1 Planetary Ball Mill |
| Recommendation(s): | For sample preparation of hard and brittle materials, the LMC100D Jaw Crusher is suitable for pre-crushing and the Planetary Ball Mill for fine grinding under the above mentioned conditions. |



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