Task:

Application field: Agriculture

Material: Soil sample

Feed size: 0-200 µm

Feed quantity: 20 g

Material specification(s): medium-hard

Customer requirement(s): < 20 µm

Subsequent analysis: X-ray Fluorescence Analysis

Solution:

Selected instrument(s): Mortar Grinder RM 200

Configuration(s): Mortar agate; Pestle agate

Parameter(s): Revolution speed constant; pestle pressure 4

Time: 40 min.

Achieved result(s): 65 % < 20 µm
90 % < 50 µm

Remark(s): After a grinding time of 40 min. the material starts to stick and agglomerate at the grinding set. Higher fineness can only be achieved by wet grinding.

Recommendation: For sample preparation of different soils, the Mortar Grinder RM 200 is suitable under the above mentioned conditions.