



Soil

Application

Market segment:	Agriculture
Material:	Soil samples
Feed size:	0-2 mm
Feed quantity:	35 g (per sample)
Material specification(s):	Medium-hard, dry
Customer requirement(s):	< 250 µm, for determination of carbon (C) nitrogen (N)
Subsequent analysis:	TOC Total Bonded Organic Carbon

Solution

Selected instrument(s):	Planetary Ball Mill
Configuration(s):	Grinding jar 125 ml, Zirconia 6 Grinding balls Zirconia 20 mm Ø Alternatively: grinding jar 125 ml, Achat 6 Grinding balls Agate 20 mm Ø
Working settings:	280 rpm
Time:	10 min. (7 min. with Zirconia jar)
Achieved result(s):	< 250 µm, with both grinding sets
Remark(s):	Generally it is possible to grind soil samples also in the Lab Wizz 320 Micro Ball Mill, but the maximum sample quantity for a 35 ml Zirconia jar is approx. 10 - 12 ml.
Recommendation(s):	For sample preparation of soil samples the Lab Wizz 320 Micro Ball Mill is suitable under the above mentioned conditions.



Soil



Soil sample

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