

Test Report



10750

Application field: Agriculture

Material: Agglomerated, dried soil samples with small stones / small brick residues (cleaned with H₂O₂: removal of organic residues; HCl: removal of CaCO₃)

Feed size: 10-40 mm

Feed quantity: 20 g

Material specification: medium-hard, dry

Customer requirement: Disintegration to < 2 mm

Subsequent analysis: Different soil analyses (ICP-MS Mass Spectroscopy,Ö)

Instrument: BB 51 Laboratory Jaw Crusher

Configuration: Laboratory Jaw Crusher BB 51, breaking jaws and wearing sheets of tungsten carbide (WC)

Parameter: Gap size of jaws: 1.0 mm

Time: 30 s (per sample)

Result: < 2 mm

Remark: In the case of very huge agglomerates of > 50 mm it is sufficient to pre-crush them manually to smaller pieces to feed the crusher.

Recommendation: For the grinding of medium-hard, dry and agglomerated soil samples with small stones our Laboratory Jaw Crusher BB 51 is suitable under the above mentioned conditions.

Pictures of the sample



Fig. 1: *Dried initial soil sample*



Fig. 2: *After crushing in BB 51 with gap size of 1.0 mm*



Fig. 3: *Initial dried soil sample*



Fig. 4: *After crushing in BB 51 with gap size of 1.0 mm*