

Task:

Application field: Engineering / Electronics

Material: Formed activated charcoal

Feed size: pellets of 2 x 6 mm

Feed quantity: 2000 ml

Material specification(s): hard brittle, dry

Customer requirement(s): < 20 µm;
throughput 2 - 4 litres/hour

Subsequent analysis: not defined

Solution: As the ZM 200 was discontinued we recommend to use the ZM 300 with the same settings now

Selected instrument(s): ZM 200 Ultra Centrifugal Mill
DR100 / 40 Vibratory Feeder

Configuration(s): Push-fit rotor of stainless steel with 24 teeth;
ring sieve of stainless steel with Conidur holes of 0.08 mm;
cyclone for ZM 200 with passage receptacle and holder,
with receptacle 5 l

Parameter(s): Revolution speed 18000 rpm

Time: 40 min.

Achieved result(s): $d_{50} = 3.5 \mu\text{m}$
 $d_{90} = 7.6 \mu\text{m}$,
measured by HORIBA Laser Particle Sizer LA-920.

Remark(s): For a continuous sample material feeding the Vibratory Feeder DR100/40 should be used.

Recommendation: For the fine grinding of activated charcoals we recommend our Ultra Centrifugal Mill ZM 200 with Vibratory Feeder DR 100 and cyclone according to the conditions mentioned above.