Task:

Application field: Chemistry / Plastics

Material: Powder coating, based on epoxy resin

Feed size: 5 - 15 mm flakes

Feed quantity: 650 g

Material specification(s): electrostatical, temperature sensitive

Customer requirement(s): < 200 µm
1000 g / batch

Subsequent analysis: not defined

Solution:

Selected instrument(s): Ultra Centrifugal Mill ZM 200
Vibratory Feeder DR 100

Configuration(s): Push-fit rotor ZM 200, 24 teeth, stainless steel;
Distance sieve trapezoid holes 0.25 mm, stainless steel;
Cyclone ZM 200 with passage receptacle and holder,
with 3 litres collector

Parameter(s): speed 18000 rpm

Time: 5 min.

Achieved result(s): 100 % < 200 µm
70 % < 125 µm

Remark(s): For a slow and continuous feeding of the material the Vibratory Feeder DR 100 was used.

Recommendation: For fine grinding of different powder coatings the Ultra Centrifugal Mill ZM 200 is suitable under the above mentioned conditions.