What's New in Version 5.1.2

Version 5.1.2 offers you five improvements in the characterisation of particles and fibres. For Diashape, Fibreshape, Flockshape and Powdershape the tolerance limits of different parameters -acceptance test- are now set automatically to assure the quality control of particles or fibres.
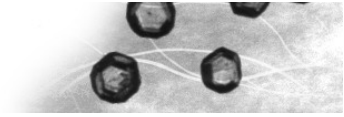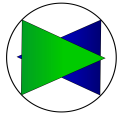
1. Automatic evaluation of tolerance limits

It enables to define the tolerance limits for size and shape parameters automatically using linear Gaussian statistics.

Example for Powdershape: The figure below shows calculated tolerance limits for the mean min size, square shape factor, the 10, 50 and 90 percentile of the grain size. The tolerance limits of the grain size are shown by the 2 green lines of the grain size histogram.

Figure 1: Example of the automatic evaluation of tolerance limits for quality control
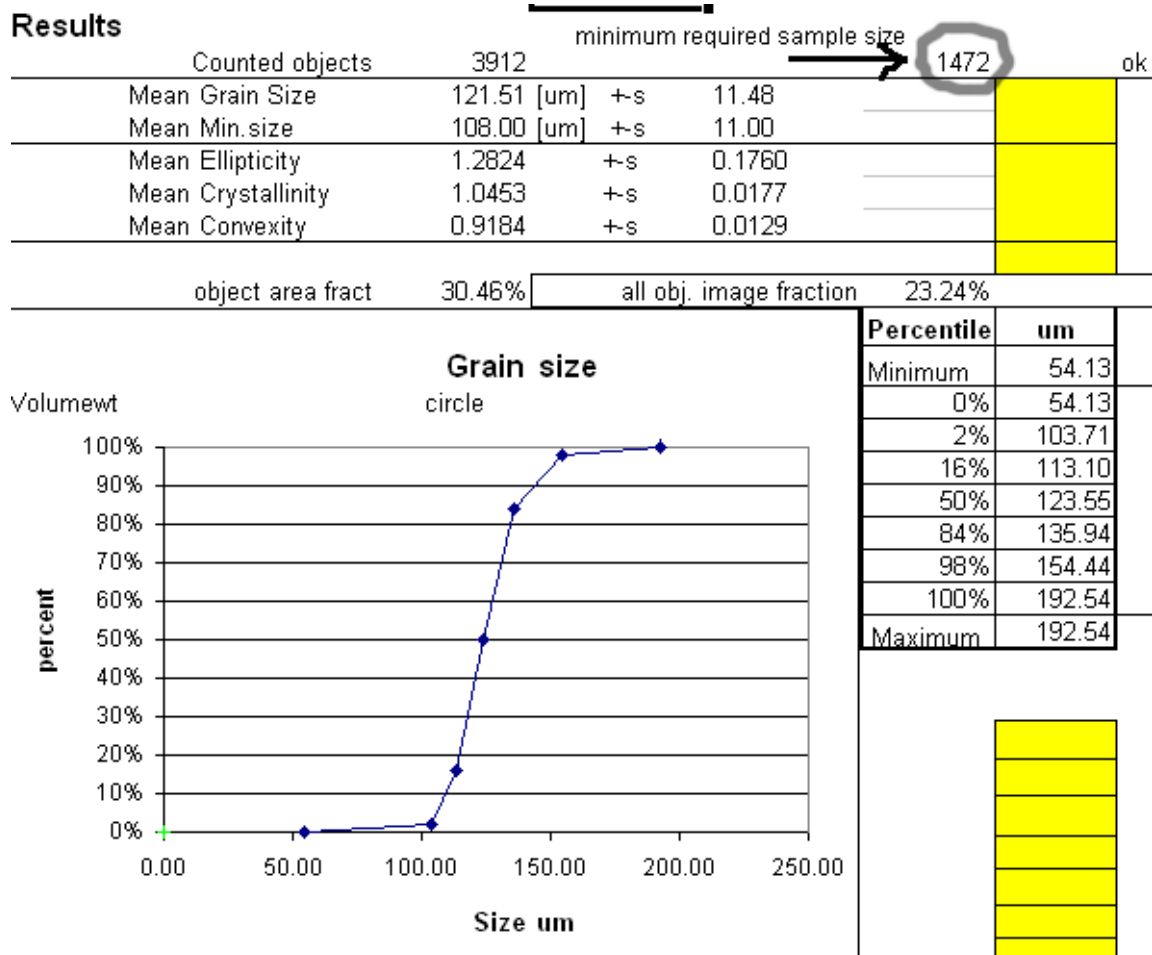
2. Calculation of required sample size according to ISO 13322-1 for quality control

It enables to calculate the minimum number of counted particles that are needed for a stable result.

Example for Powdershape:
Figure 2: Calculation of required sample size according to ISO 13322-1

3. Qchart: the number of measurements is increased to 255

4. Length measurement of very long fibres (length/width ratio > 1000)

5. Orientation measurements of fibres