

CIPAC MT STATUS REPORT

13.08.2005

MT 187 Particle size analysis by laser diffraction

Allocated to DAPF

CIPAC methods published in:

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CIPAC 46th meeting, June 2002 in Rome

Mr Kröhl presented the results of the collaborative study on particle size determination by laser diffraction on 4 samples (1 WP, 1 WG (extruded), 1 WG (spray dried) and 1 SC. Results were presented from 34 laboratories who used 12 different instruments from 7 manufacturers. One set of results was excluded because a different instrument was used. It was suggested that the instrument manufacturer be contacted and a note included in the method. Only six laboratories participated in the analysis of dry formulations and it was confirmed this analysis required more specialist equipment and most laboratories investigated water-based dispersions. Concern was expressed about the cost of the instrumentation and the correlation with results from the existing sieve analysis methods. It was confirmed that the data from the laser diffraction instrumentation cannot be directly compared to existing sieve tests and the method must be considered as a 'stand alone' method. Clarification was required to confirm whether the statistical analysis was applicable to the results and whether there was a bias in the results from one instrument.

Decision The determination of particle size distribution using laser diffraction, CIPAC 4278, has been accepted as **provisional** CIPAC Method.

CIPAC 47th meeting, June 2003 in Bucharest

Decision The determination of particle size distribution using laser diffraction, CIPAC 4278, has been accepted as **full** CIPAC Method