



CB Mills Application Bulletin

Recently, a test was performed on the DYNO-MILL® ECM at the CB Mills laboratory in Gurnee, IL.

The product was a Carbon Black suspended in a glycol medium. The desired finished particle size was 80 nanometers (0.080 microns). The formulation was processed utilizing stabilized Zirconia media and was recirculated for 2.5 hours. The final result was a median particle size of 77 nanometers (0.077 microns), with 99.9% of the particles below 111 nanometers.

Previous attempts by the customer utilizing traditional horizontal media mills failed to achieve the desired objective.

These results are particularly interesting in Digital and Ink Jet Applications, where the typical target size is approximately 300 nanometers or less. More and more applications are requiring nanoparticle distributions.

The DYNO-MILL® ECM is an extremely valuable tool of these processes.