

AimSizer/LNO.0009

Research on Light Scattering Effect of Calcined Diatomite Matting Agent in Coating Surface

Abstract: The calcined diatomite matting agent was firstly prepared by classifying and fitting together by an appropriate proportion. This matting agent was applied in styrene-acrylic emulsion and acrylic emulsion. The production and coating were characterized by means of SEM, XRD, SL, Gloss Meter, etc. the results showed that when the corresponding particle size of power granularity d10, d25, d75, d90 were 2.54, 5.04, 9.74, 18.8, 31.66 μ m, the particle size was normal distribution. When the angles of incidence were 60 degree and 85 degree, the glossiness of the coating was adjacent. The extinction efficiency reached 51% and 65%, respectively.

Key words: diatomite; granularity distributing; light scattering; laser particle size analyzer; particle size analyzer; aimsizer; as-2011 micron laser particle size analyzer; as-2012 submicron laser particle size analyzer

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