



BURGESS BSC-SD

AIR-FLOATED HYDROUS ALUMINUM SILICATE

BURGESS BSC-SD is a fine particle size hydrous kaolin clay exhibiting lower brightness, neutral pH, and low residue ideally suited for water-based coating systems which do not require maximum whiteness.

BURGESS BSC-SD exhibits a bulk density of approximately 50 lb./ft³. Maximum dispersion of BSC-SD can be achieved best in water based systems incorporating the BSC-SD prior to the addition of other extender/filler/pigments including TiO₂. Dispersion base viscosity should be sufficient to achieve adequate shear which may require adjustment of water level and amount of extender/filler. Maximum "wet out" of the clay bead can be achieved by minimizing hydrophobic based defoamers or other additives that could encapsulate the beads of clay and retard wet out. Incorporating the bead clay in a system which contains binder or water which includes additives and/or pigments may encapsulate the bead clay preventing proper dispersion thus lowering product efficiency and increasing time to achieve proper dispersion.

Typical Physical Properties

GE Brightness % 82.0

325 Mesh Residue % 0.01

Average Particle Size Sedigraph 0.4 μ

pH (20% Solids) 7.3

Typical Chemical Properties

Loss On Ignition % 13.7 – 14.1

Silica (SiO₂) % 44.8 – 45.3

Alumina (Al₂O₃) % 37.5 – 39.7

Iron Oxide (Fe₂O₃) % Trace

Titanium Dioxide (TiO₂) % 1.35 – 2.27

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