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ASP[®] 170

Hydrous Aluminum Silicate

Product Description

ASP 170 kaolin is produced as a very fine particle-size grade of aluminum silicate, featuring premium brightness. It is also available in the form of spray-dried beads. ASP 170 is chemically inert and has been specially modified with dispersants for ease of dispersion.

Application Information

ASP 170 kaolin is a versatile product for use in gloss and semi-gloss coatings, as well as a variety of ink applications. It provides a high degree of TiO₂ extension and is designed for colored pigment extension as well. ASP 170 provides excellent optical properties in rubber and plastic compounds. The fine particle size and low residue help provide excellent dispersion and other physical properties in a wide range of polymeric systems. Its neutral pH has a minimal effect on cure rates when compounded into rubber systems. Typical applications include solvent and waterborne, gloss and semi-gloss coatings, industrial coil and appliance coatings, solvent and water-borne inks, rubber sealants and adhesives, TPE/TPO, and BMC/SMC.

Physical Properties	Typical Value
Physical Form	Highly Pulverized Powder
Special Modifications	Dispersant
GE Brightness (%)	90
Screen Residue, 325 Mesh (%)	0.01
Free Moisture (%) measured at 105°C	1.0
pH (20% solids)	7
Median Particle Size, Sedigraph (µm)	0.4
Specific Gravity (g/cm ³)	2.58
Bulk Density, Loose lb/ft ³ (kg/m ³)	15 / 240
Bulk Density, Tamped lb/ft ³ (kg/m ³)	20 / 320
Oil Absorption, Rubout (ASTM D-281)	45

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