

SpectrAl® 51

SpectrAl 51 is a low surface area fumed alumina. Fumed alumina has similar morphology and many similar properties and functions as fumed silica. It differs from fumed silica in optical, thermal, electrical and charge characteristics.

All untreated fumed aluminas are characterized by:

- High purity
- Aggregated structure
- Submicron particle size
- Low bulk density
- Mixture of theta, delta, gamma and amorphous alumina
- Positive surface charge

Application Information:

Inkjet Media

CAB-O-SIL fumed silica and SpectrAl fumed alumina are used in microporous coatings for inkjet printable media. Microporous coatings enable instant dry printing, a significant improvement over slow drying polymer swellable coatings. Higher surface area fumed silicas and aluminas are recommended for their increased adsorption capacity. Fumed aluminas provide excellent gloss, color gamut, coating transparency, and water fastness.

Performance Comparison in Microporous Coatings:

	Alumina	Cationic Silica	Silica
Particles	SpectrAl 51 and 81		CAB-O-SIL M-5, MS-55, H-5 and HS-5
Dispersions	CAB-O-SPERSE PG-003 and PG-008	CAB-O-SPERSE PG-022	CAB-O-SPERSE PG-001 and PG-002
Gloss	Excellent	Very Good	Good
Drying Speed & Ink Absorption	Excellent	Excellent	Excellent
Humidity Fastness (Ink Adhesion)	Excellent	Excellent	Good
Dark Fastness (Ozone Fading)	Poor	Poor	Poor
Optical Properties	Good	Very Good	Good

CAB-O-SPERSE aqueous dispersions of fumed alumina and fumed silica are available for easy formulation into water based coatings and formulations.



Packaging Options:

SpectAl 51 is packaged in 10 kg multi-wall Kraft paper bags and available in 15 x 10 kg (net weight 150 kg) poly-shrouded units.

Product Sales Specifications:

Sales specifications for this product may be obtained by contacting a sales or technical service manager at the Cabot Corporation office in your region.

Material Safety Data Sheet:

A Material Safety Data Sheet for this product may be obtained by contacting the Cabot Corporation office in your region or can be downloaded from our website:

www.cabot-corp.com

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