

BLANC FINE™ BSM Barium Sulphate Modified

BSM - MA

As a high-precision innovative function filler of nanometer-class, BSM - MA is specially developed for electronic printing ink and writing ink industry. The use of complete and uniform film coating technology enables it to have highly efficient pigment dispersibility and to fully retain each pigment crystal grain around it and well distribute in resin and solvent so that the intrinsic hiding power and optical performance of each pigment crystal grain may be maximized to exhibit a purer color image and vividness. BSM - MA further reduces its oil absorption by complete film coating treatment, thereby reducing the resin and solvent consumption in formulas. As a result, a better quick drying property is achieved and volatility be reduced.

The diameter D_{97} of the ultra-fine grains in BSM - MA is less than 0.3um and most of its grains are submicro-class nanometer material between 0.1-0.8um. Additionally, each grain is provided with strong surface energy after surface treatment and make full Brownian motions with the pigment particles in formulas. As a result, it has very good pigment dispersibility and strong coupling force at the same time. Its exclusive 0.3um grain size on average is equivalent to titanium dioxide crystal particles (mean grain size: 0.3um), thereby offering a perfect grain size ratio. Each BSM - MA crystal grain can retain 4 to 6 pigment particles around it using its adequate surface area, effectively preventing the flocculation resulting from that the pigment components in formula fail to not be fully dispersed. That is, BSM efficiently offers space intervals for titanium dioxide and other pigment crystal grains using the high dispersibility and surface energy of BSM and distributed each pigment grain in each corner of the product as their carrier. This forces the efficacy of each pigment grain is fully released to form more scattering centers, thereby obtaining more scattered light source and finally achieving the products with more exquisite and vivid surface effect.

项 目	BLANC FINE™ BSM - MA
Main contents (DIN.EN.ISO.3262, PT.2)	98.00%
Mean grain size D_{97} (SC. method)	0.30um
Oil absorption (DIN.EN.ISO.787, Pt.10)	15g/100g
Dry brightness (ISO.7724)	>98
PH value (DIN.EN.ISO.787, Pt.9)	7-9
Volatility at 105°C (DIN.EN.ISO.787, Pt.2)	0.10g/100g
Conductivity S/cm (DIN.EN.ISO.787, Pt.14)	0.3

