

colourant, volumizing additive, soft focus agent

Application Sheet

Colourspheres® are spherical composite materials, in which colourants have been encapsulated into a polymer structure. Colourspheres® offer many advantages in comparison with conventional pigments as their structure is very different, and as their surface characteristics have been modified. The wetting properties of Colourspheres® are excellent due to their small specific surface area. They are very easy to disperse allowing easy colour shading.

Colourspheres® are available both as hydrophobic (HB) or hydrophilic (HL), and in two sizes, 10 or 40 microns.

Trade Name	INCI Name
Coloursphere® WL 10 HB	Styrene/Acrylates Copolymer (and) Methicone (and) PEG 26 - PPG 30 Phosphate
Coloursphere® WL 10 HL	Styrene/Acrylates Copolymer (and) PEG 26 - PPG 30 Phosphate
Coloursphere® WL 40 HB	Styrene/Acrylates Copolymer (and) Methicone (and) PEG 26 - PPG 30 Phosphate
Coloursphere® WL 40 HL	Styrene/Acrylates Copolymer (and) PEG 26 - PPG 30 Phosphate (+/-) CI 15850 (Red 7 Lake) (or) CI 77499 (Iron Oxides) (or) CI 77007 (Ultramarines) (or) CI 77266 (Black 2) (or) CI 75470 (Carmine) (or) CI 45410 (Red 27 Lake) (or) CI 15850 (Red 7 Lake) (or) CI 77289 (Chromium Hydroxide Green) (or) CI 77288 (Chromium Oxide Green) (or) CI 77510 (Ferric Ferrocyanide) (or) CI 17200 (Red 33 Lake) (or) CI 15985 (Yellow 6 Lake) (or) CI 42090 (Blue 1 Lake) (or) CI 15850 (Red 6 Lake) (or) CI 77491 (Iron Oxides) (or) CI 19140 (Yellow 5 Lake) (or) CI 77742 (Manganese Violet) (or) CI 77891 (Titanium Dioxide) (or) CI 77492 (Iron Oxides)

To see the full range of colours available, please refer to our product catalogue or web site.

Benefits

- excellent wetting properties
- easy to disperse
- ease of application due to the spherical shape
- volumizing effect (40 micron)
- light diffusing property due to the size and shape of the sphere (10 micron)

Properties

- spherical shape
- small specific surface area
- low density
- 10 or 40 micron size
- choice of hydrophilic or hydrophobic surface characteristics
- allow hot and cold processing



Application Areas

Colour Care

Colourspheres® are suitable for all colour care applications from foundations and powders to mascaras and lip glosses.

Foundations and Powders

The smaller 10 micron sized Colourspheres® are ideal for foundations and powders as their shape and size give an optical illusion of smoothness and luminosity. In emulsions, it is recommended that the hydrophilic Colourspheres® are added to the water phase as this gives the best results in terms of light diffusion.

Colourspheres® are ideal also for blushers, eye shadows and other types of powdery products as their shape and surface characteristics give an even application and an illusion of smooth skin. This is a definite advantage when formulating eye shadows for mature skin types.

Mascaras

Colourspheres® can be used to replace traditional pigments in mascaras. The Colourspheres® with 40 micron size not only deliver colour, but they also function as a volumizing agent, thickener and rheology modifier in addition to giving the mascara base some structure. The rheology and surface charge of Colourspheres® have been modified to maximize the colour take-up and application.

Conventional stearate-type mascaras have poor, brittle film applications, which crack easily. Colourspheres® modify the film forming properties of the formulation, improving the wear and performance. Colourspheres® permit low viscosity emulsions with high colour impact and volumizing effect. In volumizing mascaras, Coloursphere® with hydrophilic surface treatment, is recommended, as the volumizing effect is stronger when the Colourspheres® are added to the water phase.

Lipsticks and Lip Glosses

As Colourspheres® are spherical particles, they have a soft and smooth application which glides on with ease. Due to their big size compared to the conventional colorants, Colourspheres® hinder the feathering of lipsticks.

Formulating

Colourspheres® are easy to formulate with even though they are in powder form. They do not need to be pre-dispersed; they can be added directly to formulations such as a mascara bases. This means that colour shading can be done a lot faster than with traditional pigments. Colourspheres® can be used in both hot and cold processes, but they do not tolerate high shear mixing. If grinding is needed, it can be done lightly, but not with three-roll mill.

Emulsions

When formulating emulsion type products, the surface treatment of the Coloursphere® product should be chosen depending on in which phase the colourant will be added in. When formulating emulsions with optical effect of smoothness or mascaras with volume, the hydrophilic Colourspheres® should be used. The hydrophobic Colourspheres® are more suitable for waterproof mascaras and other types of long lasting, water resistant colour cosmetics.

Powder Applications

The hydrophobic Colourspheres® are recommended for powder applications as they give longer lasting application and they have better binding properties. In powder applications, the colour shading can be done after the powder base has been formulated. The binder system should be added after the colour shading.

Anhydrous Systems

Colourspheres® are not heat sensitive and they do not need to be pre-dispersed. They can be added into lipstick bases directly just like colour dispersions. In lipglosses, the Colourspheres® can be added into cold or hot bases.

Typical use level: 10-15%

Packaging: 25 kg sealed aluminium bag in cardboard box