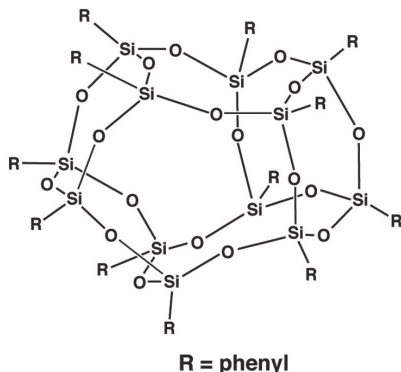


DodecaPhenyl POSS®

FEATURES

White solid powder that provides high refractive index.



APPLICATIONS

For improvement of transfer resistance and long wear color cosmetics.

BENEFITS

Increases the refractive index of coatings. Provides soft focus and oil control properties.

TYPICAL PROPERTIES

Appearance	White powder
Density	1.26 g/mL
Refractive Index	1.56
Formula Weight	1550.26
Resin Solubility	thermoplastic resins including fluoropolymers

REGULATORY STATUS

CAS 18923-59-6.

Not a primary dermal irritant.

HANDLING PRECAUTIONS

Product safety information required for safe use is not included in this document. Before handling, read product and material safety data sheets and container labels for safe use, physical health and hazard information. For material safety data information, contact Hybrid.



SUGGESTED FORMULATION

MS0802 contains 12 phenyl groups and can be utilized to enhance refractive index. MS0802 is a crystalline solid that will dissolve slowly in aromatics and selected aliphatics. MS0802 can be used to enhance transfer resistance as it will form a clear surface film.

To achieve a soft, silky feel from MS0802, it is suggested to mix it with any of the following: Eutanol® G, limonene or 2-ethanol cyclohexane. These carriers swell the MS0802 and reduce the crystalline size and render MS0802 as a soft surface film.

DESCRIPTION

MS0802 is a hybrid molecule with an inorganic silsequioxane at the core and organic phenyl groups attached at the corners of the cage. MS0802 can be used to increase porosity and color enhancement. It has also been used to improve transfer resistance and gloss. POSS® MS0802 also provides UVB sorption.

COMPATIBILITY

Water	Not soluble
Emulsified	Unstable
Alcohols	
Ethanol (95%)	Not soluble
Ethanol (70%)	Not soluble
iPropanol (99%)	Not soluble
iPropanol (70%)	Not soluble
Solvents & Propellants	
Hexane (aliphatics)	Dispersable
Cosmetic Materials	
Mineral Oil	Not soluble
Petrolatum	Dispersable
DC 556 [PhSi(OSiMe ₃) ₃]	Not soluble
Shea Butter	Dispersable
Lanolin	Not soluble
PGI 192 POSS®	Dispersable

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