

SUNCOLOR CORPORATION

ADDITIVES FOR COATINGS, INKS, ADHESIVES & THERMOPLASTICS

SUNSPHERES™ 32.0

DESCRIPTION

SUNSPHERES 32.0 are optically clear, solid fused amorphous silica microspheres specially engineered for paints, liquid and powder coatings, inks, adhesives, thermoplastics and composites. These microspheres increase impact resistance, reduce shrinkage, improve adhesion, and enhance surface qualities such as mar and scratch resistance. The ceramic nature of the product makes composites hard and durable.

The dielectric properties and very high electrical receptivity of these materials over a wide range of temperatures, together with their low thermal conductivity, allow their use as an electrical and thermal insulating material in a range of environments. SUNSPHERES 32.0 are inert to most substances, including virtually all acids, allowing their use in arduous and hostile environments.

LIGHT TRANSMISSION

The Sunsppheres 32.0 efficiently transmit ultraviolet and visible light from 200 nanometers through the visible spectrum. These microspheres space pigments and promote efficient, thorough curing by ultraviolet radiation.

SIZING & USE;

SUNSPHERES 32.0 have a median particle size of 32 microns with 95% of particles passing 65 microns. Recommended dosages range from 3 to 50% by total weight of formulation. SUNSPHERES 32.0 are designed for use in thick coatings appropriate to their size. The SUNSPHERES 32.0 provide texture in thinner coatings. Due to their low surface area, Sunsppheres 32.0 are easily dispersed.

TYPICAL PARTICLE SIZE ANALYSIS:			PHYSICAL & CHEMICAL PROPERTIES:	
By MicroTrac/ Median Diameter Approx. 32.0Microns				
(Microns) 65	(% Passing)	95	Index of Refraction	1.458(n _D)
45		71	Softening Temperature	>1000 ⁰ C
22		35	Strain Point	>600 ⁰ C
11		14	Coefficient of Thermal Expansion	55 x 10 ⁻⁷ / ⁰ C
5.5		6	DC Resistivity	1 x 10 ⁸
2.75		3.5	Hardness (Mohs) Scale	7.0
10% Finer		8.5	BET Surface Area (sq.m/g)	0.3
50% Finer		31	Ph	5-6
95% Finer		65	Structure/Amorphous SiO ₂	>99%
Shape: Spherical to Semi-Spherical/Solid Microspheres			Crushing Strength	>60,000 psi

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See reverse side for additional information

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