

SUNSPACERS™ 04.X

DESCRIPTION

SUNSPACERS™ 04.X are finely divided, optically clear, solid fused amorphous silica micronized powders specially engineered for paints, liquid and powder coatings, inks, adhesives, thermoplastics, and composites. These micronized powders increase corrosion resistance, reduce shrinkage, improve adhesion, and enhance surface qualities including abrasion, mar and scratch resistance.

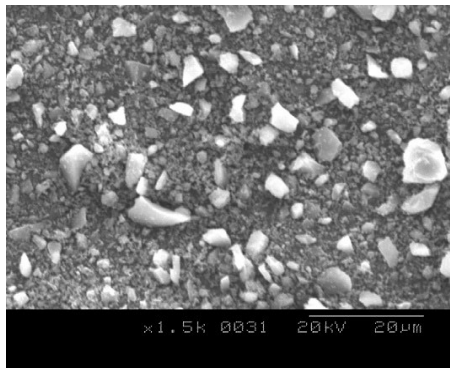
The dielectric properties and very high electrical receptivity of these materials over a wide range of temperatures, together with their low thermal conductivity, allow their use as an electrical and thermal insulating material in a range of environments. SUNSPACERS™ 04.X are chemically stable in a vast range of resins and pH.

LIGHT TRANSMISSION:

The SUNSPACERS™ 04.X transmit and scatter more than 85% of UV light having a wavelength of 200 nanometers and transmit and scatter more than 95% of UV light having a wavelength of greater than 300 nanometers. These micronized powders allow pigmented and/or thick, clear coatings to be readily cured with ultraviolet radiation.

SIZING & USE:

SUNSPACERS™ 04.X have a median particle size of approximately 3-4 microns, with a particle size range of 0.5 microns to 13 microns. Recommended dosages range from 3 to 50% by total weight of formulation. Due to their low surface area, the SUNSPACERS™ 04.X are easily dispersed.

TYPICAL PARTICLE SIZE ANALYSIS*:			PHYSICAL & CHEMICAL PROPERTIES*:	
Median Diameter Approx. 3-4.0 Microns				
	Microns	% Passing	Specific Gravity	2.2
	22	100	Index of Refraction	1.458(n_D)
	11	99	Softening Temperature	>1000°C
	5.5	72	Strain Point	>600°C
	2.75	31	Coefficient of Thermal Expansion	0.48 x 10⁻⁶/K
	1.375	9	DC Resistivity	1 x 10⁸
0.50	0	Hardness (Mohs) Scale	> 7.0	
Shape: Solid, Angular to Sub-Rounded Particles			BET Surface Area (sq.m/g)	2.7
			Oil Absorption	<10
			pH	5-6
			Structure/Amorphous SiO₂	>99%
			Crushing Strength	>60,000 psi
*Copies of actual COA's listing actual measured values of data shown above are available upon request.				

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See reverse side for additional information



**NORTH CANTON, OHIO 44720
DIRECT TELEPHONE: 330.499.7010**

**FOR SAMPLES & CUSTOMER SERVICE, CONTACT MARY ZINK
TEL: 330.327.2997 or mzink@suncolorcorp.com**

All information, including all data presented in the tables above entitled Typical Particle Size Analysis* and Physical and Chemical Properties*, recommendations, or advice contained in this document and related product data sheets given by Suncolor Corporation whether written or oral is given in good faith, to the best of its knowledge at the time of publication. The products of Suncolor Corporation are sold subject to Conditions of Sale. Nothing in this or any other document shall alter, vary, supersede or operate to waive any of the Conditions of Sale. Each user of the products shall convince himself, through all available sources (including finished product testing in its appropriate environment) of the suitability of the products supplied for its own particular purpose. Because actual use of the products by the user is outside the control of Suncolor Corporation, such use is within the exclusive responsibility of the user. Suncolor Corporation cannot be held responsible for any loss incurred through incorrect or faulty use of the products. Information, recommendations and/or advice are neither made to infringe on any patents, nor to grant a license under any patent or intellectual property right of Suncolor Corporation, nor to grant the right to file for any patent protection.