



Zeeospheres™

ceramic microspheres

Powder Coating (PC) Grades—G-200 PC, G-400 PC

Introduction

Zeeospheres™ Ceramic Microspheres are unique, fine particle size, high-strength microspheres. These products are typically used to increase filler loading; enhance flow; and improve hardness. The powder coating (PC) grades have a refined effective top particle size which allows for smoother powder coating finishes as compared to our standard gray grades.

Material Description

Properties	Zeeospheres™ Ceramic Microspheres PC Grades
Shape	Hollow spheres with thick walls
Composition	Silica-Alumina Ceramic
Color, unaided eye	Gray

Typical Physical Properties (Not for specification purposes)

Properties	Zeeospheres™ Ceramic Microspheres PC Grades	
Grayness ("L" Value)	64-69 (Hunter L,a,b scale)	ASTM D2244
Crush Strength	> 4,200 kg/cm ² (> 60,000 psi)	
pH	3.0 minimum	ASTM E 70
Hardness	7	Mohs Scale
Softening Point	1,020°C (1,870°F)	
Dielectric Constant	3.7-4.6	
Thermal Conductivity	2 W/mK	

Properties	G-200 PC	G-400 PC
True Density (gm/cc)	2.5	2.4
Particle Size (microns)	95 th PCTL	24
	90 th PCTL	14
	50 th PCTL	5
	10 th PCTL	1

PC Grades Formulating Information

For optimal dispersion, Zeeospheres™ Ceramic Microspheres should be added to the grind stage along with pigments and other filler materials. Use of a dispersant may aid in the dispersion of these products.

Product Storage, Handling and Safety

Please read and follow the precautions and directions for use on the product label and on Material Safety Data Sheets available from Zeeospheres Ceramics, LLC, (985) 532-2541, www.zeeospheres.com.

