



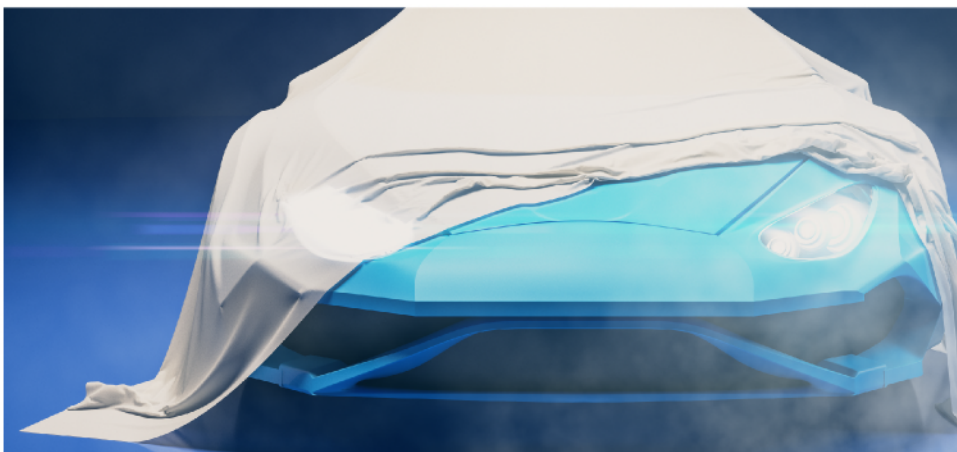
주식회사 와이즈캠
WISECHEM

part of the  **KISCO** group
CREATING COLORS AND CHEMICAL SOLUTIONS



WISECHEM is a joint venture company established by KISCO and Korea Alcohol Industry Co., Ltd in 2010. It is the first company in Korea to operate in the field of display and high-performance pigments. It supplies world-class pigments to manufacturers in Korea, Japan, China and Taiwan, which are the major countries involved in the display and semiconductor industry.

Pigments



Fine pigments (Particle size 30~50nm)

WISECHEM has a wide range of products applicable to the field of translucent automotive paints and pigments for printers, particularly red, orange and disperse formulations.



Large pigments (Particle size 50~300nm)

Based on the pigment surface modification technologies such as semi-transmissive types, reflective types, high light resistance and high solvent resistance, WISECHEM provides products that meet a wide range of customer needs.

WISEBEAD

WISEBEAD is a product developed for grinding and dispersing ultra-fine materials for electronic parts, inks and coatings. In particular, it has excellent wear resistance and can be used for a long period of time, therefore reducing costs.

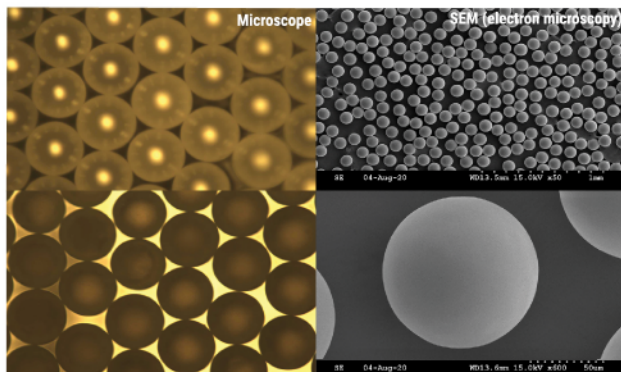
Features & Application

- ▶ Superior strength and hardness
- ▶ Uniform size and shape with excellent sphericity
- ▶ High density and hardness
- ▶ High wear-resistance and no contamination
- ▶ High grind efficiency
- ▶ Special product and application for electronics

Specifications

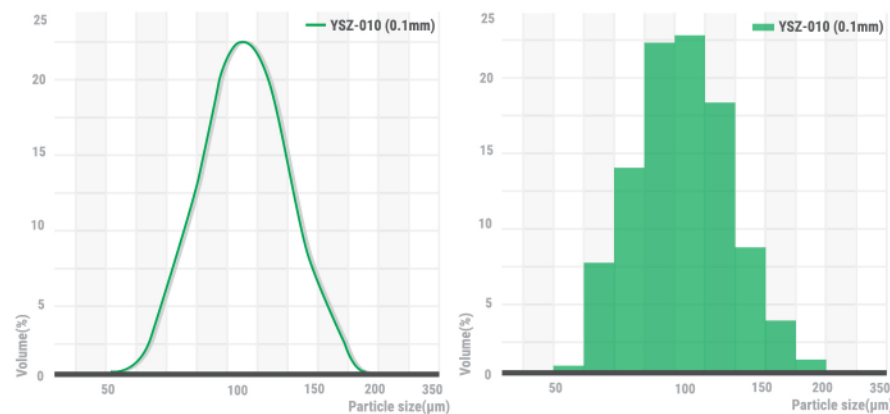
List	Unit	YSZ-005 (0.05mm)	YSZ-010 (0.10mm)	YSZ-030 (0.30mm)	YSZ-080 (0.80mm)	For specifications of WISEBEAD products, please refer to the data in the table.
Density	g/cm ³	≥ 6.0	≥ 6.0	≥ 6.0	≥ 6.0	
Vickers hardness	HV01	≥ 1,400	≥ 1,400	≥ 1,250	≥ 1,250	All products are subject to strict quality control.
Cleaning status	%	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5	
Size(Camsizer)	mm	0.03~0.08	0.080~0.130	0.27~0.33	0.70~0.90	
Sphericity	%	≥ 92.0	≥ 97.0	≥ 98.0	≥ 98.0	

Features



- ▶ With an optical microscope, you can see that the spherical surface is very clean, there is no foreign matter and the particle size is uniform.
- ▶ Even electron microscopy shows a perfect spherical shape and grain size without any roughness or imperfections on the surface.

Particle size distribution



The result of measuring the particle size distribution shows a normal Gaussian distribution plot with left and right symmetry. Due to the narrow distribution, dispersion efficiency and quality are also improved.

size(μm)	Volume In %
45.709	0
52.481	0.21
60.256	1.8
69.183	7.49
79.433	13.97
91.201	22.1
104.713	22.84
120.226	18.14
138.038	9.11
158.489	3.84
181.97	0.5
208.93	0.01
239.883	0

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WISEBEAD