

Reflective Pigment

Other names:

Reflective powder, high shining glass beads, high index glass beads

Reflective mechanism:

When the light irradiates on the microbeads, it is concentrated on the special reflective layer of the microbeads due to the high refraction effect of the microbeads. And the reflective layer of microbeads re-reflects the light to the vicinity of light source through the transparent microbeads, so that strong reflected light can be seen at the light source. When the refractive index of the microbeads is over 1.9IOR, a good retroreflective effect can be formed.

Usage:

iSuoChem® Reflective powder has the characteristics of retroreflective reflection and thus produces a strong retroreflective effect without external power supply. It can be widely used for the following applications:

1. Reflective fabric, reflective film, reflective signs, advertising materials
2. Reflective coatings, reflective paints.
3. Textile, apparel materials, shoes & hats, school bags, rescue products (water, land and air).
4. Safety signs for roads, ports, mines, firefighting, etc.



Specifications:

High Shining White Series

Code	Size	Gravity	Reflection Performance (cd.lx-1.m2) 0.2/5	Observation angle / Incident angle 1.0/5
HW1520	150-200 mesh	4.2mt/m ³	530 (≥450)	46.3
HW2030	200-300 mesh	4.2mt/m ³	488 (≥400)	44.7
HW3035	300-350 mesh	4.2mt/m ³	402 (≥330)	38
HW3540	350-400 mesh	4.2mt/m ³	330 (≥250)	41.2
HW4050	400-500 mesh	4.2mt/m ³	260 (≥200)	47.8
HW5070	500-700 mesh	4.2mt/m ³	102 (≥50)	52.2
HW6080	600-800 mesh	4.2mt/m ³	102 (≥50)	52.2

Silver Grey Series

Code	Size	Gravity	Reflection Performance (cd.lx-1.m2) 0.2/5	Observation angle / Incident angle 1.0/5
AG1520	150-200 mesh	4.2mt/m ³	530 (≥450)	46.3
AG2030	200-300 mesh	4.2mt/m ³	488 (≥400)	44.7
AG3035	300-350 mesh	4.2mt/m ³	402 (≥330)	38
AG3540	350-400 mesh	4.2mt/m ³	330 (≥250)	41.2
AG4050	400-500 mesh	4.2mt/m ³	260 (≥200)	47.8
AG5070	500-700 mesh	4.2mt/m ³	102 (≥50)	52.2

High Shining Silver Grey Series

Code	Size	Gravity	Reflection Performance (cd.lx-1.m2) 0.2/5	Observation angle / Incident angle 1.0/5
HG2030	200-300 mesh	4.2mt/m ³	488 (≥400)	44.7
HG3035	300-350 mesh	4.2mt/m ³	402 (≥330)	38
HG3540	350-400 mesh	4.2mt/m ³	330 (≥250)	41.2
HG4050	400-500 mesh	4.2mt/m ³	260 (≥200)	47.8

More colors for your choice: Red, orange, yellow, blue, Green, Pink, etc.
Size range is 300-400mesh or as customer's request.

Other types of glass beads for your choice:

- High refractive index glass beads for Road marking
- Rainy night reflective glass beads
- Colored reflective anti-skid particles
- Reflective marking paint (Liquid reflective film)