

GLASS BEAD FOR TRAFFIC PAINTS (TYPE I, II, & III) - PRODUCTION DESCRIPTION

Description:

Type I: Glass Bead for Road Marking: Improve the road marking line contrary

reflection function. When driving at night, the lamp shines on the marking line with glass bead in it, the ray of lamp is reflected back parallel. So the driver can

look at the road clearly and drive safely at night.

Type II: Glass Bead for Jetting: Glass bead for jetting has the features of chemical

stability, high mechanical intensity and hardness. They can be jetted onto the object surface with compressed air and can be used on compress glass, rubber, plastic, moulds with metal casting or compressing. The jetting balls would help

reduce elasticity of the surface materials and increase wearing capacity.

Type III: Glass Bead for Grinding: With the advantages of smooth surface, even size,

high hardness, wearable and stable, widely used as disperser, grinding media and

filler materials in day, paint, ink and chemical industry.

Applications:

Type I: Appearance: Colorless and transparent ball, no visible bubbles and impurity.

Spherical beads: $\geq 80\%$ (600< Sieve size < 850um, spherical beads $\geq 75\%$)

Density: 2.4-2.6g/cm3 Refractive index: Nd ≥1.50

Glass bead composition: The glass bead is made of sodium and calcium. $SiO_2 > 68\%$

Type II: Appearance: Clean and transparent, no visible bubbles and impurity.

Density: 2.4-2.6g/cm3

Hardness: 6-7

Spherical beads: ≥75% SiO₂ content: >70%

Type III: Appearance: Clean and transparent, no visible bubbles and impurity.

Specific gravity: 2.4-2.6g/cm³

Hardness: 6-7

Compressive strength: >1200N

Packaging: Using double-deck package, the inner is polythene film and its thickness is not

less than 0.5mm, the outer is plastic woven bag to prevent leak or damp. The net

weight of each bag is 25±0.2kg. Using double-deck package, the inner is

polythene film and its thickness is not less than 0.5mm, the outer is plastic woven

bag to prevent leak or damp. The net weight of each is 1000±8kg.

TYPICAL SPECIFICATION

Type I: Three different beads size distribution according to JT/T 446-2001 Standard of Chinese Traffic Ministry. Products meet international standard including English BS6088、Korean KS and American AASHTO. Choices of different size glass bead between 50μm-1180μm according to different functions. (JT/T446-2001 International Standard)

Item	Glass bead size scope(µm)	Glass bead quality percentage(%)
	>850	0
	850-600	5-30
1 (DROP~ON)	600-300	30-80
	300-106	10-40
	<106	0-5
	>600	0
	600-300	40-90
2 (PREMIX)	300-150	5-60
	<150	0-5
3 (BECKE LINE)	>212	0
D (DECKE LINE)	<90	0-4

Comparison table of international standard sieve size and mesh.

Standard sieve size(µm)	Standard Mesh
1180	16
850	20
600	30
425	40
300	50
212	70
180	80
150	100
106	140
90	170

Type II:

No.	Diameter(µm)	Corresponding sieve size
1	710-425	25-40
2	425-250	40-60
3	250-150	60-100
4	150-100	100-150
5	100-75	150-180
6	75-50	<180

You can choose different size glass bead between 50µm-850µm according to different function.

Type III:

No.	diameter(mm)	corresponding sieve size
1	1-2	18-10
2	2-3	10-8
3	3-4	8-6
4	4-5	6-4

You can choose different size glass bead between 1mm-5mm according to different function.