

# LUXSIL AL Free®

POTTERS IS A WORLD LEADER, WITH OVER 100 YEARS OF EXPERIENCE IN MANUFACTURING GLASS BEADS.

## Luxurious Feel

The spheres offer a luxurious “feel” to personal care and cosmetics formulations. The spherical shape of the hollow microspheres reduces the formulation viscosity, and the spheres’ “ball-bearing effect” provides more uniform coverage and easier application.

## Transparent

LUXSIL AL Free® appears as a fine white powder. However, when they are applied to the skin, they are transparent. When used in formulations, they leave behind no white residue.

## Low Oil Absorption

Since LUXSIL AL Free® hollow microspheres are non-porous, they do not absorb resins or oils

## Light Weight

With a density of 1.1 g/cc, LUXSIL AL Free® displaces heavier bulking agents and are very economical to use.

## Improves Utilization

In many applications, addition of microspheres allows better utilization of expensive ingredients like pigments. The spheres break up agglomerates and provide more uniform distribution of individual particles within the formulation.

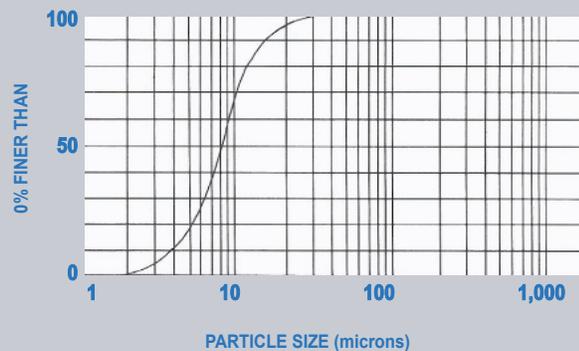
## Made in the USA

LUXSIL AL Free® is made in our USA facilities. They are now approved for most cosmetic uses in Japan.

### PRODUCT INFORMATION

SHAPE	Sphere
DENSITY	1.1 g/cc nominal
MEAN SIZE	11.7 microns
COLOR	White
CRUSH STRENGTH	>10,000 psi
INCI NAME	Calcium sodium borosilicate
CHEMICAL RESISTANCE	Low alkali leach, Insoluble in water

### PARTICLE SIZE DISTRIBUTION



## Health and Safety Information

### COMPOSITION

LUXSIL AL Free® is fused amorphous borosilicates with inorganic oxides. No crystalline silica is present. **CTFA Name:** calcium sodium borosilicate.

### TOXICITY TESTING

**Primary Skin Irritation:** Classified as non-primary skin irritant when applied as received, moistened with distilled water. Protocol P270.

**Acute Oral Toxicity:** Single Dose Acute Oral LD<sub>50</sub> is greater than 5000 mg/kg of body weight when administered as a 50% w/w suspension in distilled water. Protocol P274.

**Primary Eye Irritation:** Classified as practically non irritating to the eye, using 24 hour Maximum Mean Total Score of 1.3 (Kay and Calandra). Protocol P271.

(Testing completed by Product Safety Labs, East Brunswick, NJ, August 1994)

### HEAVY METAL IMPURITIES

Lead	<10 ppm
Arsenic	<2 ppm
Mercury	<1 ppm

### BACTERIOLOGICAL TESTING

Standard Plate Count	Negative, <10 col/g
Yeast	<10 col/g
Mold	<10 col/g
Gram Negative Bacteria	Negative
Gram Positive Bacteria	Negative

### POTTERS ENVIRONMENTAL COMMITMENT

Potters respects the environment by the recycling of over one billion pounds of glass each year. Potters works closely with regulatory agencies and responsible customers around the world to ensure that we provide glass beads that don't harm employees, contaminate water supplies or land around roadways. We have set our own strict standards and voluntarily perform XRF analysis and other quality control procedures on incoming raw materials to ensure our glass beads are safe and meet heavy metals limitations.

**CALL 1-800-55-BEADS FOR YOUR NEAREST DISTRIBUTOR**  
[www.pottersindustries.com](http://www.pottersindustries.com)

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