Cosmetic Particles

Stable and Biodegradable

The Natural Solution
Floratech is the world’s premier supplier of biodegradable scrubbing beads. Floratech offers a wide variety of options to replace exfoliating microplastics.

- Biodegradable
- Free of microplastics
- Spherical
- Non-GMO
- Botanical
- Oxidatively Stable
- Noncomedogenic
- Hypoallergenic

**Specialty Particles**
Floratech’s proprietary technology allows for better pigment dispersion and more stable colors.

**Spherical**
Floratech’s unique manufacturing system produces beads which are spherical, ensuring gentle yet effective exfoliation.

**Exfoliating**
Florabeads and Ecobeads are carefully sized to provide standard or custom particle size ranges suitable for a wide variety of exfoliating products.

**Monosized**
Monosized particles communicate quality due to their uniform appearance. Florapearls, Florasomes and Floraspheres are monosized to approximately the same diameter using a proprietary manufacturing process. Monosized particles are best-suited for transparent product systems offering high visibility.

**EXFOLIATING (MULTISIZED)**
- Ecobeads <1000 microns
- Florabeads Jojoba
  - 28/60 Size = 250-600 microns
  - 40/60 Size = 250-420 microns
  - 60/100 Size¹ = 150-250 microns

**MONOSIZED (UNIFORM)**
- Florapearls
  - Standard = 1000 microns
- Florasomes & Floraspheres
  - Small = 500 microns
  - Medium = 1000 microns
  - Large = 1500 microns

¹ 60/100 available in White (Natural) only
Standard Colors

Custom Colors & Sizes Available

With 100+ options to choose from in specialty particles, Floratech is sure to have the bead you’re looking for.

Colors may vary from print. For a sample, contact sales@floratech.com.
Florabeads Jojoba

are hard, smooth, free-flowing microspheres of jojoba esters which provide gentle yet effective exfoliation.

EFFICACY

Floratech’s scrubbing beads (Florabeads and Ecobeads) are as effective as other commonly used mechanical exfoliants; however, Floratech’s beads do not cause irritation or microlacerations. The difference — scrubbing beads that are suitable for products intended for daily use.

APPLICATIONS

Florabeads are the exfoliative of choice for body and facial scrubs, shower gels, hand/foot washes, and soaps. Florabeads have been successfully incorporated into systems containing surfactants and/or alcohols.

Florabeads RBW and Florabeads Carnauba

have all the spherical, biodegradable attributes of Florabeads Jojoba with a higher melting point and are more stable in low pH systems. Florabeads RBW (Rice Bran Wax) and Florabeads Carnauba are available in 28/60 size in their natural colors.

Florabeads Jojoba INCI: Jojoba Esters
Florabeads RBW INCI: Oryza Sativa (Rice) Bran Wax
Florabeads Carnauba INCI: Copernicia Cerifera (Carnauba) Wax

Scanning electron microscope images show that Florabeads and Ecobeads are smooth, unlike common exfoliants which may cause irritation or microlacerations to the skin.

The International Dermal Institute only recommends the use of scrubs that do not result in irritation. Therefore, they do not recommend the use of crushed fruit pits, shells or similar damaging materials.
**ECOBEADS** are biodegradable, low-cost, natural wax-based scrubbing beads with superior skin feel.

Ecobeads are an effective exfoliant yet gentle enough for daily use. Studies show Ecobeads are gentler than polyethylene particles and apricot shells.

Ecobeads are 100% natural, biodegradable and contain no microplastics.

**APPLICATIONS**

Ecobeads visually complement any color scheme and are the ideal particle choice for eco-friendly, cost-sensitive formulations such as body and face washes, skin treatment cleansers, spa-themed therapy, and many other skin care categories.

Sources available upon request
SUSPENSION
Suspension is by far the most commonly requested technical help topic for particles. Essentially, putting particles into a stable suspension is similar for all particles because they are all subject to Stokes’ law. Floratech recommends using a crosspolymer thickener such as carbomer, xanthan, gellan or another agent to create polymeric links throughout the continuous phase. This produces a “net” or “matrix” which, if formulated properly, results in a stable suspension across a wide range of temperatures.

Reliance on adjusting viscosity and/or specific gravity are common mistakes in the search for stable suspension. Raising the viscosity of the continuous phase slows separation, but does not prevent it. Attempting to match the specific gravity of the particle to the continuous phase (to give neutral buoyancy) is only effective if the formula does not experience any change in temperature (dissimilar expansion coefficients ensure specific gravity will not be equal at different temperatures).

EFFICACY
Florapearls give a “rolling massage” effect when rubbed on the skin. Florapearls’ large diameter adds big, bold color to formulations.

Florapearls INCI: Jojoba Esters

APPLICATIONS
Florapearls are useful in all rinse-off formulations including facial cleansers, shower gels, body buffers, and scrubs.

CUSTOMIZATION
Floratech specializes in exfoliating beads and specialty particles. Since 1986, Floratech has engineered and produced stable, biodegradable scrubbing beads.

Choose from many options or create your perfect bead by customizing size, color, additives and playtime. Let our expertise work for you.
**Florasomes**

are soft particles which deliver additives and jojoba emolliency directly to the skin. Florasomes deliver vitamin E (standard) or can deliver customer supplied vitamins, fragrances, special effect pigments, or other additives.

Colored particles can communicate efficacy (e.g., green = algae; orange = vitamin C).

Unlike cellulose, gelatin or agar beads, Florasomes have an elegant skin feel.

Florasomes can carry a higher loading of most additives than lactose/cellulose particles.

**FLORASOMES ARE NOT ENCAPSULATED**

Florasomes, unlike encapsulated particles, deliver additives in a homogeneous wax matrix — disappearing completely without leaving debris. Gelatin and agar beads leave fragments and a sticky residue. Florasomes leave only an elegant skin feel.

**Floraspheres**

offer all the benefits and features of Florasomes without additives.

Floraspheres and Florasomes are monosized to a uniform diameter and are available in three standard sizes and two playtimes.

**SOFT BEADS ARE FLEXIBLE**

Unlike many other delivery particles, Floratech’s particles can be tailored to suit individual needs, with a choice of sizes, playtimes, additives and colors providing greater flexibility to formulations.

Florasomes and Floraspheres INCI: Jojoba Esters
Biodegradable & stable
No microplastics
Spherical

NATURAL FROM THE GROUND UP

Floratech started with a small jojoba oil mill in the Sonoran Desert of Arizona where the jojoba plant is indigenous and is known for its moisturizing properties. Over the past 40 years, we have grown into a modern botanical derivative research and manufacturing center.

Floratech is committed to creating sustainable, eco-friendly products. Our growth has been achieved by providing our customers with products and services that reflect our industry leadership and dedication to quality, innovation and service.

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