Bamboo Raw Fibers
sustainable, light and strong
“In a bamboo forest, many generations of trees join together via their roots to become a single giant organism - amazing!”

Christian Gerig, Co-Founder and CEO Organic Bamboo Industries AG
Our resources

Organic Bamboo Industries AG is the first and only vertically integrated bamboo enterprise in the world, foresting its own historic bamboo wood from organic certified bamboo forest in China.

The handling of bamboo raw material is a complex process which is highly decisive for the quality of the end product. Everything begins with the right timing for cutting. The age of the bamboo poles and also their location in the forest have huge effect for the quality of our bamboo raw fibers. Later the drying procedure for our poles is very relevant for the conservation of the fibers. As we have our bamboo factory next to our forest we have efficient just-in-time production more or less 365 days a year.
Advantages of Bamboo Raw Fibers

❖ High strength. Thanks to its rough structure, the bamboo fiber has a large surface area and bonds well to plastics. Bamboo fibers thereby result in a great improvement in tensile and breaking strength.

❖ Excellent thermal stability. Bamboo fibers are relatively non-flammable, meaning that recipes require less added flame retardant.

❖ Low weight. Due to the low specific weight of bamboo fibers, their use is particularly recommended for all applications in which a reduction in the weight of plastics is desired, for example in the automotive industry (bodies or fairings, rotors for wind energy installations, pipes, facade sections, window frames etc.)

❖ Natural attractive appearance. With the natural color and small particle size of bamboo fibers, they provide manufactures choice to change the appearance of plastics.

❖ Biodegradability and non-abrasive nature. Organic Bamboo Fibers are a sustainable and renewable raw material that is easy to dispose of.

❖ Eco-friendly. Our forest is organically certified according to EU and US standards (NOP).
Applications as fiber-reinforced plastic component

- Fiber-reinforced thermoplastic polymers
- Polypropylene/Polyethylene/Polylactic acid/Polybutylene succinate
- Fiber-reinforced thermosetting resins
- Polyvinylchloride/Polyester/Novolac/Epoxy resins
Application in home and personal care products
Replacement of Plastic Microbeads

OB-F1 as scrub materials: 100% natural replacement of plastic microbeads used for scrub applications on a one-to-one basis with minor formulation changes and better exfoliation performances.

❖ The combination of the natural hardness of bamboo fiber and good particle distribution works most effectively when used at 2-5% into formulations.
❖ High stability and low reactivity, making them compatible in most formulations.
❖ Enhance the foaming capabilities, improves its texture giving a creamier lather.
❖ Our bamboo fiber are very dry (less than 6% moisture content) and therefore have better performance than walnut fiber.
❖ Additional benefits as bamboo fibers are rich in bioavailable silica.
Application in animal bedding: eco-friendly and animal-friendly

- Dust free for easy clean-up
- Efficient in bacteria control, benefit from the effect of anti-bacterial and anti-fungi
- Long lasting odor and moisture control, benefit from outstanding porous structure
- Neutral scent, soft and comfortable bedding with no aromatic oils or inks or chemical treatment
- Absorbs more moisture than wood or hemp fiber
- Great nesting and burrowing material
## Product range and specifications

<table>
<thead>
<tr>
<th>Product ID</th>
<th>OB-F1</th>
<th>OB-F2</th>
<th>OB-F3</th>
<th>OB-FA</th>
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<tbody>
<tr>
<td>Product name</td>
<td>Bamboo Raw Fiber SHORT</td>
<td>Bamboo Raw Fiber STANDARD</td>
<td>Bamboo Raw Fiber LONG</td>
<td>Bamboo Raw Fiber BEDDING</td>
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<tr>
<td>Color</td>
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<td>light brown</td>
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<tr>
<td>Screen Size</td>
<td>&lt; 104 µm</td>
<td>104 - 459 µm</td>
<td>460 - 534 µm</td>
<td>&gt; 534 µm</td>
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<tr>
<td>Length distribution</td>
<td>average = 107.3 µm</td>
<td>average = 510.5 µm</td>
<td>average = 980.5 µm</td>
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<tr>
<td>Aspect Ratio</td>
<td>4.7</td>
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<td>7.7</td>
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<tr>
<td>Moisture content</td>
<td>&lt; 6%</td>
<td>&lt; 8%</td>
<td>&lt; 8%</td>
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</table>
About us - Swiss reliability, quality and stability

The people behind Organic Bamboo dedicate themselves daily with great conviction and personal devotion. The holding company Organic Bamboo Industries Ltd. is the result of great experience, research and synergies. It is based in St. Gallen, in Switzerland. Five shareholders founded the company in 2012. The registered capital is 1.79 Mio. CHF.

The enterprise specializes in the industrial production of value added bamboo fibers and liquid bamboo extracts. Our branch (100% subsidiary of Organic Bamboo Industries Ltd.) in China holds a certificate for ISO9001. Our forest is certified organic by EcoCert according to EU and NOP standards. We can guarantee full traceability and sustainability in all stages of production. As we have our own forest and forest management team we can guarantee the specifications and the stability of the raw material over many years.
Our partner

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