



Gulf Green Pack

A4 - 062, SAIF Zone, SHJ 08382 U.A.E

t. +9716 557 15 75

f. +9716 557 15 85

e. info@gulfgreenpack.com

www.gulfgreenpack.com

Natural Product Advantages

GGP Green Library, 2009-2010

Natural Products Advantages - Bamboo...

- The fastest growing woody plant on this planet: some species can grow up to 3 feet per day!
- Produce 4 to 5 times more biomass than felled trees for wood production.
- Bamboo is one of the strongest building materials in the world. (Bamboo tensile strength is 28,000 per square inch versus 23,000 for steel!)
- A critical element in the balance of oxygen and carbon dioxide in the atmosphere
- Soil conservation tool. Its anti erosion properties create an effective watershed.
- It will decompose in 90 days in your backyard! And in 3 days in a compost pile.
- It decomposes in 14 days in a lake or river and the fibers can be eaten by the fish!

Natural Products Advantages - Rice Starches...

Starches have been widely used as thickeners for the food industry for many years. The primary sources of food starches are corn, wheat, potato and tapioca.

Rice starches are the little known secret of the starch world, comprising a very small percentage of the total starch usage.

Don't be fooled by the fact that rice starches are not as common as the other starch sources.

They have many unique attributes that make them some of the most interesting starches in the food industry. Rice is the

most widely consumed basic foodstuff in the world. Each year over 500 million tons of rice is harvested, providing sustenance to many countries and people throughout the world.

The keys to the unique properties of rice starches are found in its many varieties. Due to different climates, soil characteristics and cultures, over 240,000 registered varieties of rice exist in the world.

This variety leads to a wide range of rice starches with many different characteristics including: different starting gelatinization temperatures, textures, processing stabilities and viscosities.

This means that a natural "native" rice starch may provide all the stability that a food processor will need without having to resort to chemical modifications.

Natural Products Advantages - Sugar Pulp ...

Sugar pulp (also called bagasse) is the pulp left over after sugar-cane juice is extracted.

The cellulose in the sugar pulp can replace wood-derived cellulose in making paper products.

To create packaging materials, we press the pulp into boards and draw the boards into molded packaging. The finished material can be heated to 350°F, microwaved, and frozen down to -13°F.

Our packaging made from sugar pulp is rated for home or industrial composting.

It degrades in 30 to 90 days if broken into small pieces and supplied with

appropriate moisture, oxygen, and temperature.

Sugar pulp advantages:

- Annually renewable, rapid growing plant.
- Low energy and no chemicals used in its conversion from starch to our final products.
- Using sugar pulp starch, reduces waste in the sugar industry as one tonne of refined sugar results in two tonnes of sugar pulp.

Potato Plastics

Say goodbye to plastic cutlery and hello to cutlery made from 80% potato starch and 20% soy oil that's just as heat resistant and every bit as strong as plastic cutlery. It biodegrades in just 180 days! SpudWare can even be washed and reused, so you can eat your potatoes with potatoes for months to come.

Potato Plastic is another new line of plastic eating that uses potato starch as the basic polymer. This is the first time potato plastic has been used in a product which replaces conventional plastic.

Potato starch is a biopolymer with the same properties as conventional plastics. In the manufacturing process the material can be treated like plastics, for instance subjected to normal injection moulding techniques. With these disposables a biodegradable product made from an agricultural raw material is completely reusable as compost. A new generation of biopolymers which can be recycled into cattle-fodder is currently being developed.