KIMILOID

FROZEN PUFF PASTRIES

Rough-puff pastry does not typically rise or have distinct layer after being frozen. Quick-puff pastry with added KIMILOID(Propylene Glycol Alginate) yields excellent results even after being frozen. The pastry rises well when baked with clearly defined layers and has a crisp, flaky texture.

Separate Each Layer Evenly

Each layer is evenly separated and clearly defined, resulting in a consistent crisp and flaky texture throughout the pastry.

Enhance Rise

Adding KIMILOID gives the dough a firmer texture which produces pastries with enhanced rise.

Improve Workability

KIMILOID makes dough more elastic and easier to roll and work.

Recipe

Rough-Puff Pastry

Ingredients	%
Hard Flour	120g
Flour	100g
Chilled Water	120g
Unsalted Butter	200g
Salt	5g
KIMILOID (0.2% of total flour)*	0.44g

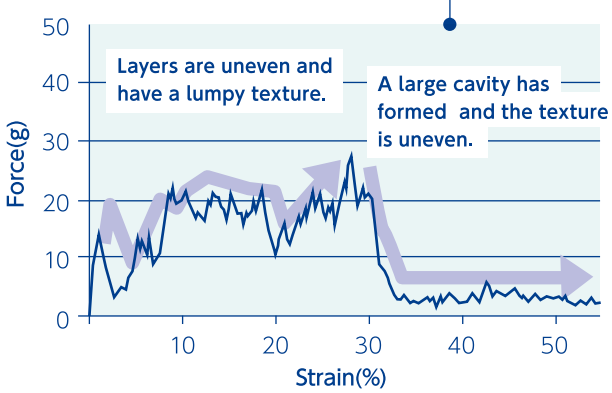
*KIMILOID should be mixed into flour prior to combining with other ingredients.

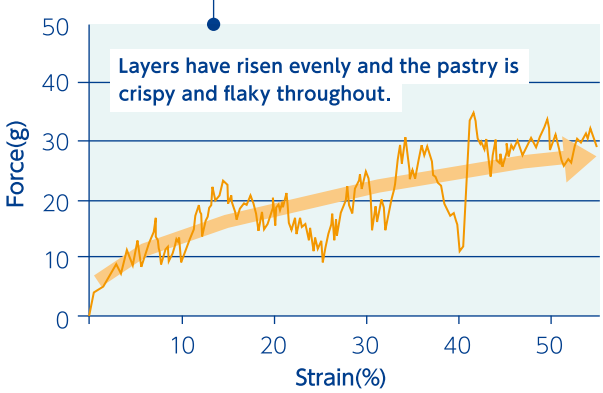
Control

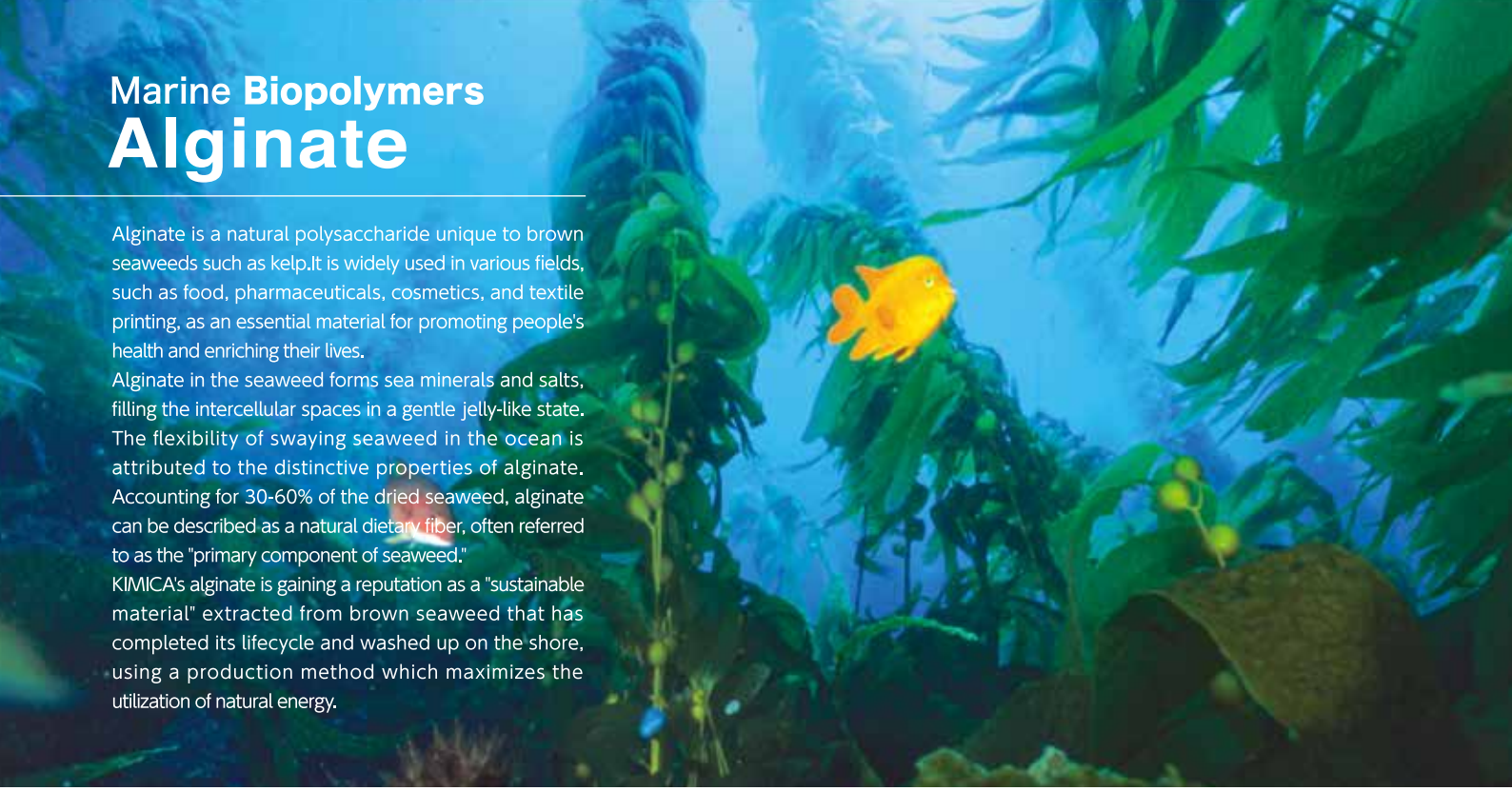
With KIMILOID

Comparison

Rough-Puff Pastry was made using the listed ingredients, frozen for three days, and then baked at 180 degrees to compare appearance and texture.







Marine **Biopolymers**
Alginate

Alginate is a natural polysaccharide unique to brown seaweeds such as kelp.It is widely used in various fields, such as food, pharmaceuticals, cosmetics, and textile printing, as an essential material for promoting people's health and enriching their lives.
Alginate in the seaweed forms sea minerals and salts, filling the intercellular spaces in a gentle jelly-like state. The flexibility of swaying seaweed in the ocean is attributed to the distinctive properties of alginate.
Accounting for 30-60% of the dried seaweed, alginate can be described as a natural dietary fiber, often referred to as the "primary component of seaweed."
KIMICA's alginate is gaining a reputation as a "sustainable material" extracted from brown seaweed that has completed its lifecycle and washed up on the shore, using a production method which maximizes the utilization of natural energy.

KIMICA Alginate – a highly valued, sustainable material.

- Nominated for the Earthshot Prize
- JAPAN SDGs Award
- Good Life Award — Minister of the Enviroiment Award
- Green Purchasing Award — Minister of the Enviroiment Award
- Food Safety,Security& Envroimental Contribution Award
- Sustainable Selection ★★★
- Courageous Management Award

KIMICA Marine **Biopolymers** Alginate
KIMICA INTERNATIONAL

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