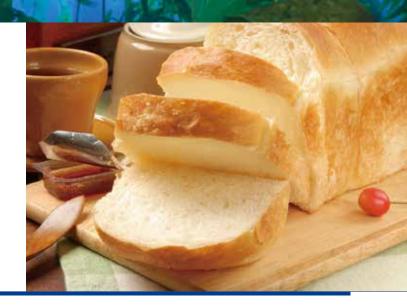


KIMICA ALGIN Calcium Alginate Water content of approx. 90% Multihydrous bread



Calcium alginate to achieve fluffy and well-shaped bread with raised water content

Calcium alginate, a natural dietary fiber found in seaweed, holds plenty of water in bread dough. Not showing too much viscosity even when holding water, calcium alginate allows bread dough to have higher water content without inteferring with its workability. Multihydrous bread with calcium alginate can be shaped easily by a machine and rises well.

Rise well, not become sticky even with water content of 90%.

Without Calcium Alginate





With Calcium Alginate

Enhanced workability

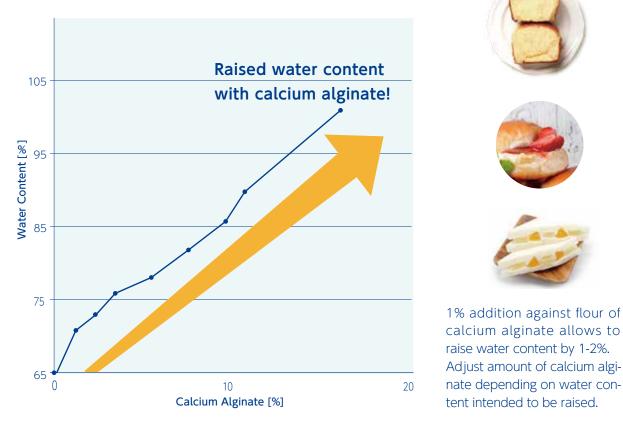
Control stickiness of bread dough to enhance its workability

Volume

Achieve the same volume even with raised water content

Marine Biopolymers Alginate

Water content of bread



Recipe

Intermediate dough preparation

Hard flour	
Yeast	
Vitamin C blend0.1%	
Water	

[Work process]

Mixing: 1 min at low speed and 2 min at middle speed Fermentation:4 hours at 28°C

Main kneading

Hard flour ······ 30%
Salt
Sugar
Powdered skim milk ······ 2%
Shortening
Water
Calcium Alginate 9%

[Work process]

Mixing:1 min at low speed, 4 min at middle
speed, 1 min at high speed, add shortening,
1 min at low speed, 3 min at middle speed
and 2 min at high speed
Fermentation: 4 hours at 28°C
Primary fermentation:20 min at 28°C
Bench time: 20 min at 28°C
Final fermentation:60 min
Baking:31 min at 200°C (Upper & lower fire)

1% addition against flour of calcium alginate allows to raise water content by 1-2%. Adjust amount of calcium algi-

tent intended to be raised.

<Patent pending>

Additive for multihydrous bread, dough for multihydrous bread, manufacturing method of dough for multihydrous bread, and manufacturing method of multihydrous bread (Patent Application No. 2021-010980)



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