

KIMICA ALGIN
Calcium Alginate
Water content of approx. 90%

Multihydrous bread

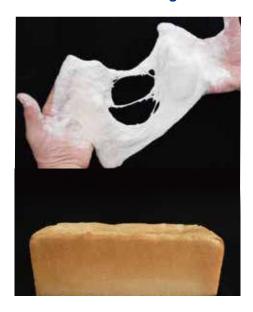


Calcium alginate to achieve fluffy and well-shaped bread with raised water content

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%.

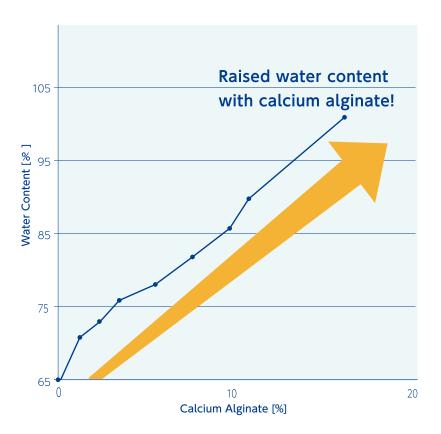
Without Calcium Alginate



With Calcium Alginate



Water content of bread









1% addition against flour of calcium alginate allows to raise water content by 1-2%. Adjust amount of calcium alginate depending on water content intended to be raised.

Recipe

Intermediate dough preparation

Hard flour · · · · · · 70%
Yeast 2%
Vitamin C blend · · · · · · · · · · · · · · · · 0.1%
Water 40%

[Work process]

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

Main kneading

Hard Harry

Hard flour309	1
Salt 29	2
Sugar 59	2
Powdered skim milk · · · · · · 29	2
Shortening · · · · · 59	2
Water 469	2
Calcium Alginate 99	2

[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

Primary fermentation: 20 min at 28℃

Bench time: 20 min at 28℃ Final fermentation: 60 min

Baking:31 min at 200℃ (Upper & lower fire)

<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)



KIMICA Corporation www.kimica-algin.com

2-1-1 Yaesu, Chuo-ku, Tokyo 104-0028 Japan Tel. +81-3-3548-1941 E-mail tokyo-office@kimica.jp

KIMITEX Corporation Osaka Algin KIMICA America Inc. Alginatos Chile S.A. [Alchi]

KIMICA Europe GmbH Qingdao KIMICA Bright Moon Marine Sci-Tech Co., Ltd.

