

EKÖMUL NEXT SERIES **NEXT GENERATION CRUMB SOFTENER**



Free Fat

The new Ekömul NEXT Series designed to be used in breads and various bakery goods, imparts SUPERIOR crumb softening properties over the existing distilled monoglycerides options available in the market. The Ekömul NEXT Series has improved powder flowability for better dispersion in dough, and improved powder quality that provides resistance over compaction, which is crucial for supply chain stability and functionality.

Winner of Frost & Sullivan's 2016 Best Practices Award Entrepreneurial Company of the Year



Frost & Sullivan's 2018 Best Practices Award Food Ingredients Company of the Year

Product Specification

PRODUCT NAME	EKÖMUL NEXT 01 P	EKÖMUL NEXT 01 R
FEEDSTOCK	PALM	RAPESEED
SAPONIFICATION VALUE	135 – 185 MG KOH/G	135 – 185 MG KOH/G
ACID VALUE	MAX 25 MG KOH/G	MAX 25 MG KOH/G
MELTING POINT	62 – 66°C	66-71°C
SHELF LIFE, MONTHS	24	24
E-NUMBER	E471 & E481	E471 & E481

Exceptional Crumb Softening

- Ultra-soft crumb performance beyond existing distilled monoglycerides solutions
 Major improvement on softness on Day 7 compared to mid-IV distilled monoglycerides
- Markedly significant softness on Day 7 compared to fully saturated distilled monoglycerides – 31% softer when Ekömul NEXT 01 P is used
- Major improvement on softness on Day 7 compared to mid-IV distilled monoglycerides
 – 19 % softer when Ekömul NEXT 01 P is used



Baking Test

Note:

2. Test method: AACC Standard Method 74-09 Bread Firmness Test; using Texture Analyser TA. XT PLUS

3. The higher the reading, the firmer the bread

Crumb Structure Evaluations



Ekömul NEXT 01 P



Mid IV DMG



Fully Saturated DMG

^{1.} Test conducted with white sandwich bread recipr added with 0.3% emulsifiers

Good Powder Resiliency

Good powder resiliency against supply chain and handling challenges.

Powder Properties Hand Rub Test



*The smaller the number, the better the powder quality



Ekömul NEXT 01 P Smeared onto palm indicating free flowing properties





Mid IV DMG Stick together forming aggregates

Compaction Test

Procedures:

- 100ml sample into cylinder and compressed with 1.2kg piston
- Store into 30°C incubator for 16 hours
- Extrude the samples and evaluate



EKÖMUL NEXT SERIES

Overcoming Supply Chain & Handling Challenges

Good powder flowability imparts excellent baking properties and product stability

Penetration Test



Note:

1. Test conducted using Texture Analyser TA.XT PLUS, measuring the force required to penetrate 10mm of the sample 2. The higher the reading, the harder the sample

- Index of product hardness after compaction at 30°C for 16 hours
- · Measures the force required to achieve penetration depth of 10mm into the sample
 - The higher the force, the harder the product

Powder Flow Test

Flow Function Test

- Characterises the relative cohesive strengths of powders
- · Tests the flow behaviour of powders at low and high consolidation strengths

HEADQUARTERS

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