

# EKÖMUL & EKÖLITE EMULSIFIERS









#### Distilled Monoglycerides & Mono and Di-glycerides MG Series

Manufactured from natural vegetable-based oils and fats. Functions as a starch complexing agent (e.g, in bread, pasta, and potato powder), water-in-oil stabiliser and emulsifier (e.g. in table margarine) and aerating agent (e.g. in ice cream, imitation cream and bakery gel formulations). This series of products can also reduce the stickiness in chewing gums and improve texture and structure of extruded products, such as extruded snacks or cereal. RSPO certified and non-palm products available. Fully saturated products are available in a range of particle size distribution.

- Ekömul MG 45 HP
- Ekömul MG 45 HO
- Ekömul MG 60 HP
- Ekömul MG 95 HP
- Ekömul MG 95 HO
- Ekömul MG 95 HNPN
- Ekömul MG 95 HR
- Ekömul MG 95 HRX

  Ekömul MG 95 HSXN
- Ekömul MG 95 HV
  - HV Ekömul MG 90 SX

Ekömul MG 90 HVX - FLOW 3FP

Ekömul MG 90 R

Ekömul MG 90 SP

Ekömul MG 90 S



**Distilled Monoglycerides XTND Series**Manufactured from natural vegetable-based oils and fats. Functions as an excellent starch complexing agent (e.g. in bread, pasta and potato powder) with good dispersibility properties and aerating agent (e.g. in ice cream and imitation cream). RSPO certified and non-palm products available.

■ Ekömul XTND 95 D ■ Ekömul XTND 95 P

#### Self-Emulsifying Mono and Di-glycerides FASE Series

Manufactured from natural vegetable-based oils and fats with a co-emulsifier to enhance emulsification properties. Functions as a quick forming emulsifier and improves emulsification properties, especially in dairy beverages and non-dairy applications. It is also used in personal care applications. RSPO certified products available.

- Ekömul FASE 30 HP
- Ekömul FASE 45 HP
- Ekömul FASE 60 HP
- Ekömul FASE 80 HP

#### **Crumbs Softener NEXT Series**

Integrated emulsifier blends derived from natural vegetable based ingredients. Functions as crumb softener in bread. RSPO certified and non-palm products available.

■ Ekömul NEXT 01 P ■ Ekömul NEXT 01 R

#### **Emulsifier Blends MYXT Series**

Co-generated emulsifier blends from natural vegetable-based triglycerides and organic fatty acids. Designed for a diverse range of functionalities including dairy and non-dairy applications such as ice creams and UHT recombined milk, water-in-oil stabiliser and crystalliser in margarines and spreads. RSPO certified and non-palm products available.

- Ekömul MYXT 272 XTI
- Ekömul MYXT 370 XTI
- Ekömul MYXT 250 MGI
- Ekömul MYXT 245 LCI
- Ekömul MYXT 280 LCI
- Ekömul MYXT 220 KRI
- Ekömul MYXT 101 PEI
- Ekömul MYXT 230 PE
- Ekömul MYXT 260 PEI
- Ekömul MYXT 373 PGI FLOW







#### Polyglycerol Poyricinoleate PGPR Series

Manufactured from fatty acids of castor oils. Functions as yield modifier in chocolate and compound chocolate. Functions as emulsion stabiliser and fat reduction in reduced fat spread.

Ekölite PGPR 90

#### Sorbitan Esters SE Series

Manufactured from vegetable-based organic fatty acids. Functions as anti crystallisers in cooking oils and as anti bloom agents in compound chocolate and confectionary fats, including cocoa butter substitutes, cocoa butter replacers and cocoa butter equivalents. Ekölite SE 60 S aids in hydration of instant active dry yeast. RSPO certified products available.

Ekölite SE 60 S

Ekölite SE 65 S

Ekölite SE 65 L

#### Fat Crystallisers KRYS Series

Manufactured from natural vegetable-based oils and fats. Stabilises products with high oil content, provides resistance to oil separation and improves mouthfeel (e.g. peanut butter, wafer creams, savoury pastes and spreads). RSPO certified and non-palm products available.

- Ekölite KRYS 01 S
- Ekölite KRYS 03 S
- Ekölite KRYS 04 V
- Ekölite KRYS 05 R
- Ekölite KRYS 07 M
- Ekölite KRYS 11 S
- Ekölite KRYS 12 M
- Ekölite KRYS 13 R

#### **Lactic Acid Esters LM Series**

Manufactured from natural vegetable-based oils and fats and lactic acid. Functions as aerating agent and enhancer in applications such as cake margarine, high ratio shortening, as well as dairy and non-dairy aerated products such as whipping cream and topping powder. RSPO certified products available.

Ekölite LM 20 P

Ekölite LM 20 P FLOW

### Propylene Glycol Esters PG Series & Polyglycerol Esters PE Series

Manufactured from vegetable-based organic fatty acids. Functions as aerating agent (e.g. imitation cream, shortening and whipped topping). Improves plasticity and whipping properties in margarine and shortening. Improves aeration of cake batter and crumb structure in bakery applications. RSPO certified and non-palm products available.

- Ekölite PE 02 P
- Ekölite PE 03 P
- Ekölite PE 04 P
- Ekölite PE 80 O
- Ekölite PG 95 P
- Ekölite PG 95 S ■ Ekölite PG 95 R

### Sodium Stearoyl Lactylates SL Series & Calcium Stearoyl Lactylates CL Series

Manufactured from vegetable-based organic fatty acids and lactic acid. Functions as a strengthener (e.g. in dough), volume improver and softener/anti-staling (e.g. in bread), aerating agent and foam stabiliser (e.g. in cream and dessert products). Options with anti-caking agents are available. RSPO certified and non-palm products available.

- Ekölite SL 70 S
- Ekölite SL 68 S
- Ekölite SL 7020 S Flow
- Ekölite SL 70 R
- Ekölite SL 68 R
- Ekölite CL 68 S 100

### Citric Acid Esters of Mono- and Diglycerides CM - Series

Manufactured from natural vegetable based oils and fats. Functions as a hydrophilic type of emulsifier in meat applications.

Ekölite CM 12







### **Bakery Applications**

Application	Function	Solutions				
Breads, Buns, Rolls & Improver	Crumb softener, shelf life extender, anti staling, improves crumb structure and texture, aids dough stability and volume	Ekömul™ MG series Ekömul™ XTND series Ekömul™ NEXT series Ekölite™ SL series Ekölite™ CL series				
Cakes & Cakes Mixes	Improve cake batter performance, crumb structure, aeration stability, extends shelf life, anti staling	Ekömul™ MG series Ekömul™ XTND series Ekömul™ MYXT series Ekölite™ SL series				
Cake Emulsifier	Imparts aeration capabalities, batter emulsification, improves cake volume, imparts fine crumb structure	Ekömul™ MG series				
	Extends shelf life, improves volume, fine crumb structure	Ekölite™ PG series Ekölite™ PE series Ekölite™ SE series				
Biscuits, Cookies & Crackers	Fat dispersion improver Improves texture (tenderness) Aeration & emulsion stabiliser	Ekömul™ MG series Ekömul™ SL series Ekömul™ XTND series				
Instant Active Dry Yeast	Protect yeast cell, aids yeast cell hydration	Ekölite™ SE series				
Pasta & Noodles	Improves palatability and texture, improves sheeting, firmness and freeze thaw stabiliser, anti sticking, provides resistance to overcooking	Ekömul™ MG series Ekömul™ XTND series				



#### **Dairy Applications**

Application	Function	Solutions		
Desserts	Improves whipping properties for aerated desserts, texture, taste and shelf life	Ekömul™ MG series Ekömul™ FASE series Ekölite™ PG series Ekölite™ SL series		
Creams & Cream Liqueurs	Alcohol-dairy emulsion stabiliser, air incorporation improver, freeze-thaw stabiliser, foam stabiliser, fat emulsion stabiliser	Ekömul™ MG series Ekömul™ FASE series Ekölite™ SL series Ekölite™ LM series		
Ice Cream & Soft Serves	Improves aeration (overrun), controls churning, provides melting resistance, improves texture and shelf life	Ekömul™ MG series Ekömul™ MYXT series Ekölite™ LM series		
Non Dairy Creamers	Aids emulsion creation and stability during processing, improves powder dispersion and provides a rich and creamy mouthfeel	Ekömul™ MG series Ekömul™ FASE series Ekölite™ SL series		
Recombined Milk & Soya Milk	Improves emulsion stability, extending shelf life and creating a smooth mouthfeel	Ekömul™ MG series Ekömul™ FASE series		



### Oils & Fats Applications

Application	Function	Solutions				
Cocoa Butter Substitutes	Anti bloom agent and gloss enhancer	Ekölite™ SE series				
Fillings & Spreads	Aeration and fat dispersion improver, foam aeration stabiliser, emulsion stabiliser, texture improver, fat reduction and mouthfeel enhancer	Ekömul™ MG series Ekömul™ FASE series Ekölite™ PE series Ekölite™ PG series Ekölite™ PGPR series				
	Oiling out resistance	Ekölite™KRYS series				
Margerines & Shortening	Improves whipping properties, improves plasticity, facilitates emulsification, facilitates ideal rate of crystallisation	Ekömul™ MG series Ekömul™ MYXT series Ekölite™ PE series Ekölite™ PG series Ekölite™ KRYS series Ekölite™ LM series				
	Reduces spattering	Ekölite™ CM series				
	Reduce sandiness in margerine	Ekölite™ SE series				
Cooking Oil	Prevents clouding and crystallisation in palm olein cooking oils	Ekölite™ SE series				



### **Confectionery Applications**

Application	Function	Solutions			
Caramel	Anti sticking and fat dispersant improver	Ekömul™ MG series			
Chocolates	Anti bloom agent and gloss enhancer	Ekölite™ SE series			
	Yield modifier	Ekölite™ PGPR series			
Compound Coatings	Gloss retention and fat dispersion improver, fat crystallisation improver	Ekömul™ MG series Ekölite™ SE series Ekölite™KRYS series			
Gums & Chewing Gums	Softener of gum base, promotes lubricity and anti sticking	Ekömul™ MG series			



#### **Nutritional Applications**

Application	Function	Solutions				
Sports Nutrition	Flavour dispersant and stabiliser, vitamin oil solubility improver, clouding agent	Ekömul™ MG series Ekömul™ FASE series				
	Fibre fortification	Ekölite VITA Fibre				
	Protein fortification	Ekölite VITA Protein				



#### **Flour Applications**

Application	Function	Solutions
Flour Premixes	Improves crumb structure and texture, extends shelf life (anti staling) and increase volume	Ekömul™ MG series Ekömul™ XTND series Ekölite™ SL series Ekölite™ CL series

### KNOWLEDGE & DISCOVERY APPLICATION CENTRE





### Technology Enablement Esterification Pilot Plant & Bakery, Oils & Fats and Confectionery Laboratorium

Located in Westport Klang, Malaysia, our Technology Enablement Esterification Pilot Plant & Knowledge and Discovery (K&D) Application Centre support development of functional, cost effective emulsifiers in a variety of food applications.

We support customers in designing ideal solutions to their formulation challenges, with analytical measurements and unveiling new product ideas.

#### **Application Support**



#### **Analytical Capabilities**

Our analytical equipment allows better understanding of product texture particle dispersion, emulsion stabilisation, measurement & observation of fat globule distribution and viscosity of emulsion systems in both intermediate and end products.









MICROSCOPE : PHASE CONTRAST & POLARISED LIGHT

VISCOMETER: BROOKFIELD LASER DIFFRACTION PARTICLE SIZE ANALYSER: MALVERN MASTERSIZER 3000

TEXTURE ANALYSER: TA.XT PLUS

#### How we can support you

	Bakery	Oils & Fats	Confectionery						
Application QC Product evaluation & benchmarking									
Application Support	Application	n formulation/ Recipe develop	ment						
	Texture analysis measurements	Emulsion strength measurements	Viscosity measurements						
	Volume measurements	Hardness	Bloom evaluation						
	Crumb structure evaluation	Crystallisation evaluation	Oxidation stability analysis						
Analytical Capability	Dough development	Aeration performance							
	Dough tolerance	Spreadability							
	Aeration performance	pH measurements							
	Viscosity measurements								
	pH measurements								

#### APPLICATIONS

#### Bakery

- Breads & Buns
- Cakes & Muffins
- Biscuits & Crackers
- Creams & Fillings
- Pastry & Doughnuts

#### Oils & Fats

- Margarines& Spreads
- Shortening
- Cocoa Butter Substitutes
- Pan Release Agents

#### Confectionery

- Chocolate & Compounds
- Chewy Candy

## PRODUCT SPECIFICATIONS - EKÖMUL SERIES

					RSPO C	ertified			
Product Name	Product Code	Monoester	lodine Value	Melting Point, approx.	MB SG		Fat Source	Biscuits, Cookies & Crackers	Breads, Buns, Rolls & Improvers
	Distilled Monoglycerides	& Mono and Di-g	glycerides	MG Series					
	MG 45 HP	Min. 45%	Max. 3	58°C	•	•	Palm		
	MG 45 HO	Min. 45%	Max. 3	58°C	•	•	Palm		
	MG 60 HP	Min. 60%	Max. 3	60°C	•	•	Palm		
	MG 95 HP	Min. 95%	Max. 2	65°C	•	•	Palm	•	•
	MG 95 HO	Min. 95%	Max. 2	66°C	•	•	Palm	•	•
	MG 90 HO FLOW - 3FP	Min. 90%	Max. 2	66°C	•	•	Palm	•	•
	MG 95 HNPN	Min. 95%	Max. 2	69°C	Non	Palm	Non Palm	•	•
	MG 95 HR	Min. 95%	Max. 2	69°C	•		Rapeseed	•	•
	MG 95 HRX	Min. 95%	Max. 2	69°C	Non	Palm	Rapeseed	•	•
	MG 95 HSXN	Min. 95%	Max. 3	69°C	Non	Palm	Sunflower	•	•
	MG 95 HV	Min. 95%	Max. 2	69°C	•		Soya	•	•
	MG 95 HVX	Min. 95%	Max. 2	69°C	Non	Palm	Soya	•	•
	MG 90 HVX FLOW - 3FP	Min. 90%	Max. 2	69°C	Non	Palm	Soya	•	•
	MG 90 R	Min. 90%	60-70	57°C	•		Rapeseed	•	
	MG 90 SP	Min. 90%	70-80	51°C	•	•	Proprietary Blend	•	
	MG 90 S	Min. 90%	95-110	40°C	•		Sunflower	•	
	MG 90 SX	Min. 90%	95-110	40°C	Non Palm		Sunflower	•	
	XTND 95 P	Min. 95%	18-26	60°C	•		Palm	•	•
	XTND 95 D	Min. 95%	20-27	58°C	•		Palm	•	•
EKÖMUL	Self-Emulsifying Mono ar	nd Di-glycerides F	ASE Serie	s					
	FASE 30 HP	Min. 30%	Max. 3	58°C	•	•	Palm		
	FASE 45 HP	Min. 45%	Max. 3	58°C	•	•	Palm		
	FASE 60 HP	Min. 60%	Max. 3	59°C	•	•	Palm		
	FASE 80 HP	Min. 80%	Max. 2	65°C	•	•	Palm		
	Emulsifier Blends MYXT S	Series							
	MYXT 272 XTI	Min. 70%	14-21	58°C	•		Palm		
	MYXT 370 XTI	Min. 70%	10-17	58°C	•		Palm		
	MYXT 250 MGI	Min. 50%	Max. 6	60°C			Palm & Corn		
	MYXT 245 LCI	Min. 45%	-	54 - 58°C	•	•	Vegetable		
	MYXT 280 LCI	Min. 80%	-	63 - 69°C	•	•	Vegetable		
	MYXT 220 KRI	Min. 20%	Max. 3	58°C	•	•	Palm		
	MYXT 101 PEI	-	-	Liquid	•		Sunflower		
	MYXT 230 PE	Min. 30%	Max. 3	54 - 58°C	•		Palm		
	MYXT 260 PEI	Min. 60%	Max. 3	60°C	•		Palm		
	MYXT 373 PGI FLOW	Min. 70%	Max. 3	-	•		Palm		
	Crumb Softener NEXT Ser	ries							
		Saponification Value	Acid Value	Melting Point, approx.			Fat Source		
	NEXT 01 P	135-185	Max.25	62 - 66°C	•	•	Palm		•
	NEXT 01 R	135-185	Max.25	62 - 66°C	Non	Palm	Rapeseed		•

								Ар	plications									
	Bake	ry				Oils & F					airy				Con	fection	ery	Nutritional
2122214	Cakes & Cake Mixes	Flour Premixes	Pasta & Noodles	Instant Active Dry Yeast	Cocoa Butter Substitutes & Replacers	Fillings & Spreads	Margarines & Shortenings	Cooking Oil	Aerated Whipped Toppings	Cream & Cream Liquers	lce Cream & Soft Serves	Non Dairy Creamers	Recombined Milk & Soya Milk	Caramel	Chocolates	Compound Coatings	Gums & Chewing Gums	Sports Nutrition
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# PRODUCT SPECIFICATIONS - EKÖLITE SERIES

						SPO tified							
Product Name	Product Code	Monoester	Iodine Value	Melting Point, approx.	МВ	SG	Fat Source						
	Propylene Glycol	Esters PG Series											
		Monoester Value	Iodine Value	Melting Point, approx.			Fat Source						
	PG 95 P	Min. 95%	Max. 3	44°C	•		Palm						
	PG 95 S	Min. 95%	Max. 3	44°C	•		Palm						
	PG 95 R	Min. 95%	Max. 3	44°C	Non	Palm	Rapeseed						
	Polyglycerol Ester	s PE Series											
		<b>Saponification Value</b>	Iodine Value	Melting Point, approx.			Fat Source						
	PE 02 P	125-145	Max. 3	58°C	•		Palm						
	PE 03 P	130-160	Max. 3	58°C	•		Palm						
	PE 04 P	130-160	Max. 3	58°C	•		Palm						
	PE 80 O	135-165	Арр. 80	-	•		<b>Proprietary Blend</b>						
	Sorbitan Esters SE	Series											
		Hydroxyl Value	Acid Value	Melting Point, approx.			Fat Source						
	SE 60 S	235-260	Max. 10	58°C	•		Palm						
	SE 65 L	66-80	Max. 1	56°C	•		Palm						
	SE 65 S	66-80	Max. 7	56°C	•		Palm						
	Sodium Stearoyl Lactylates SL Series												
		<b>Lactic Acid Content</b>	Sodium Content	Ester Value			Fat Source						
	SL 68 S	App. 28%	3.5-5.0	130-160	60 • •		Palm						
	SL 70 S	App. 32%	3.5-5.0	150-190	• •		Palm						
	SL 68 R	App. 28%	3.5-5.0	130-160	Non	Palm	Rapeseed						
EKÖLITE	SL 70 R	App. 32%	3.5-5.0	150-190	Non	Palm	Rapeseed						
	SL 7020 S FLOW	App. 32%	3.5-5.0	150-190	•	•	Palm						
	Calcium Stearoyl	Lactylates CL Series											
		<b>Lactic Acid Content</b>	Calcium Content	Ester Value			Fat Source						
	CL 68 S100	27.5 - 30%	2.5-5%	150-190	•	•	Palm						
	Lactic Acid Esters	of Mono- and Diglyce											
		<b>Lactic Acid Content</b>	Saponification Value	Anti-Caking Agent			Fat Source						
	LM 20 P	20 - 25%	265 - 300	0%	•	•	Palm						
	LM 20 P FLOW	19 - 24%	255 - 290	4%	•	•	Palm						
	Citric Acid Esters	of Mono- and Diglycer											
		Saponification Value	Iodine Value	Melting Point, approx.			Fat Source						
	CM 12	205-255	Max. 3	59°C	•	•	Palm						
	Fat Crystallisers K		1 10 14	BA Id. D. L.									
	LADVC 24 C	Free Fatty Acid	Iodine Value	Melting Point, approx.			Fat Source						
	KRYS 01 S	Max. 1%	Max. 2	59°C		•	Palm						
	KRYS 03 S	Max. 1%	Max. 2	59°C		D-1	Palm						
	KRYS 04 V	Max. 1%	Max. 2	65°C		Palm	Soya						
	KRYS 05 R	Max. 3 (AV)	Max. 2	65°C		Palm	Rapeseed						
	KRYS 07 M	Max. 1%	Max. 5	61°C	•	•	Proprietary Blend						
	KRYS 11 S	Max. 1%	Max. 21	55°C	•		Palm						
	Polyglycerol Polyi	ricinoleote PGPR Series		Hader-AM I									
	PGPR 90	Acid Value Max. 6%	lodine Value 72 - 103	Hydroxyl Value 80-100			Castor oil fatty acids						
	PUPK 90	IVIdX. 0%	12 - 103	0U-1UU	-	-	Castor on fatty acids						

								Α	pplicati	ons								
			Bake	ry				Oils & F				ı	Dairy			Co	nfect	ionery
	Biscuits, Cookies & Crackers	Breads, Buns, Rolls & Improvers	Cakes & Cake Mixes	Flour Premixes	Pasta & Noodles	Instant Active Dry Yeast	Cocoa Butter Substitutes & Replacers	Fillings & Spreads	Margarines & Shortenings	Cooking Oil	Aerated Whipped Toppings	Cream & Cream Liquers	Ice Cream & Soft Serves	Non Dairy Creamers	Recombined Milk & SoyMilk	Caramel	Chocolates	Compound Coatings
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### **KNOWLEDGE & DISCOVERY APPLICATION CENTRE**





#### **Dairy Pilot Plant**

Futura Ingredients formulates new, functional and cost effective emulsifiers and texturising systems for dairy and non-dairy applications, for instance ice creams, liquid milk, cream, creamers and acidified milk products.

A fully equipped dairy pilot plant facilitates product development in a variety of dairy and non-dairy applications to fully engage and support customers technical inquiries.

We delight in engaging our customers to develop customised solutions. Come speak to us to find out how we can support your business needs.

#### **APPLICATIONS**

#### **Ice Cream**

- Hard Pack
- Extruded
- Soft Serve
- Novelties
- Ice Lollies

#### **Liquid Milk**

- White Milk
- Soya Milk
- Flavoured Milk
- Chocolate Milk
- Plant Protein Bevarages

#### **Creams**

- Processed Thick Cream
  - Whipping Cream
- Non-whippable Cream

#### **Dairy Technical Support**



#### How we can support you

	ICE CREAM	LIQUID MILK	CREAM & CREAMERS							
Application QC	Product evaluation & benchmarking									
Application Support	ort Application formulation/Recipe development									
	Ice cream mix viscosity	Product shelf stability	Particle size distribution							
	Ice cream mix stability	Emulsion stability	Emulsion stability							
Analytical Capability	Ice cream mix fat globule measurement & observation	Fat globule measurement & observation	Product stability							
capasy	Meltdown resistance	Viscosity	Fat globule measurement & observation							
	Shape retention									
	Sensory evaluations	Sensory evaluations	Sensory evaluations							

#### Disclaimer

The information and recommendations contained herein are to the best of our knowledge reliable. However, nothing herein is to be construed as a warranty of representation in respect of safety in use, suitability, efficacy or otherwise including freedom from patent infringement. Users should conduct their own tests to determine the suitability of our product for their own specific purposes and the legal status for their intended use of the product.

### **BRAND ASSURANCE**

**Delighting Our Customers** sums up our service philosophy that starts from product conception & development, right through to product delivery to our customers.

Our business is anchored upon a strategic alignment to key raw materials, manufacturing excellence using the word-class technology, meeting stringent accreditation in food safety and sustainability.

We create and produce high quality, competitive products with proven performance in a wide variety of application fields.

Our service philosophy also extends into Research & Development, where we have the flexibility to design customised solutions to meet our customers' formulation challenges.

Let us delight you and support your sustainable business growth.





BRC Global Standards Food Safety (AIB)



MS 1480 : 2007 HACCP (Ministry of Health Malaysia)



(JAKIM Malaysia)



Kosher Pareve (Circle SK)



Certification (MPOB)



Segregation & Mass Balance RSPO SCCS Cerification (SIRIM QAS Int'l)



Health & Free Sales Certification (Ministry of Health Malaysia)



CERTIFIED TO ISO 14001:2015 CERT. NO. : EMS 00707



CERTIFIED TO ISO 45001:2018 CERT. NO. : OSH 00588



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



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

#### **Manufacturing Site**

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• futuraingredients.com