Opti-lce[™] Premium

Opti-Ice $^{\rm TM}$ is a complete range of tailored ice cream solutions including functional, nutritional and indulgent applications.

Let's get technical

Glanbia Ireland Goodness Grows Here

Glanbia Ireland is an ingredient solutions partner to some of the world's leading companies and brands. At the forefront of ingredient technology, we offer a range of solutions to match the everchanging demands of the food and nutrition industry and its consumers. With quality dairy and grains sourced from 5,000 Irish family farms, combined with advanced market research and insights, our unique platform offers fully traceable and sustainably produced natural solutions to help our customers stay ahead of the curve.

Meet Consumer Demand with

Opti-Ice[™] Premium

- Reduced calories
- Reduced fat
- Increased protein
- Better-for-you indulgence
- ✓ Made from fresh cream
- ✓ High sensory quality

In-House R&D at Your Service



50+ multi-disciplinary R&D associates:

Nutrition Applications Food Science Formulation Process Technology Analytical Science



Equipped with:

Pilot Plants Analytical Labs Application Labs Sensory Suite



Innovating and providing value for customers in:

Cheese Solutions Essential Dairy Solutions Plant Based Solutions Specialised Nutrition: Infant & Clinical



Through 4 key functions:

New Product Development-Technology and Applications Customer Open Innovation R&D Program & Governance Applied Research





What Your Consumers Say



Consumers want "better-for-you" ice cream

Due to health concerns, consumers globally are increasingly looking for ice cream products based on "better-for-you" recipes.



Balance health with indulgence

Brands need to balance delivering health credentials alongside indulgence to keep consumers interested.



Health & wellness product attributes

such as 'food minus' and consumer benefits such as 'weight & shape management' are the most sought after health & wellness claims in the Japanese ice cream sector.



Premium quality drives value sales

Elevating the premium quality credentials of ice cream will drive value sales in developed markets. To achieve this, using high-quality ingredients is essential.



With more protein, ice creams are getting healthier

The protein content per 100ml of dairy-based ice cream launched increased by 9% between 2015 and 2019.



Less sugar and fat

in ice cream are strong trends. The sugar content per 100ml of dairy-based ice cream launched was reduced by 4% between 2015 and 2019. 7% of ice cream launches in 2019 featured a low-fat claim vs 6% in 2018.





GMO free

A variety of textures

other growing claims.

is becoming an important component to deliver memorable ice cream eating experiences in Asia Pacific markets – particularly for younger generations.

Sources: Source: Mintel - A year in innovation in ice cream, 2019; GlobalData - Japan Ice Cream, June 2018; Innova - Desserts and Ice Cream in Asia, July 2019

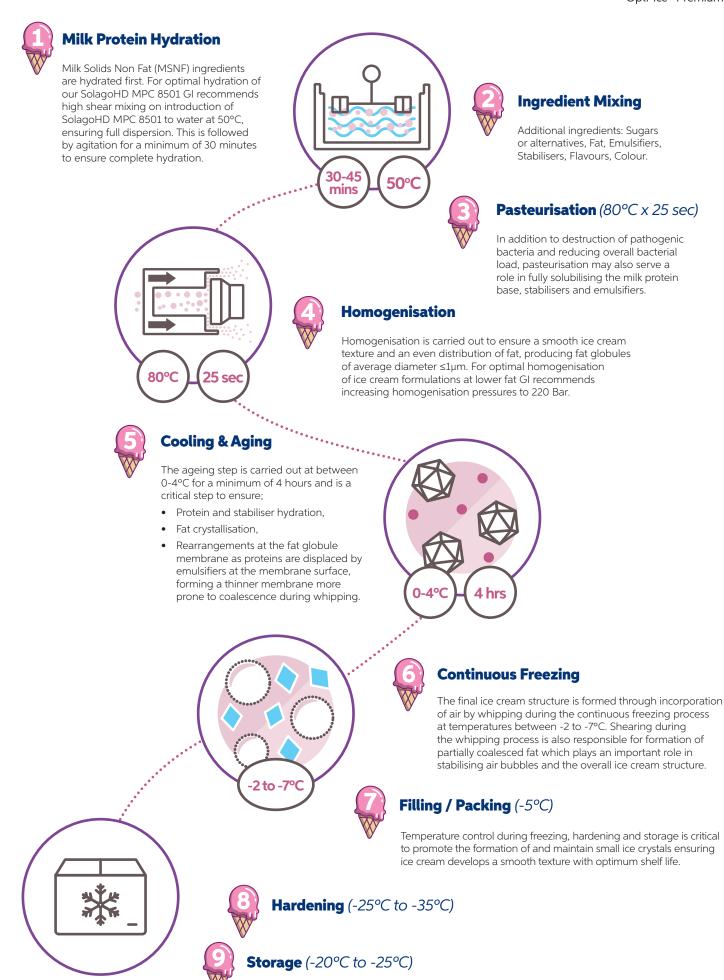
Opti-Ice[™] Premium

The ultimate in creamy, frozen indulgence minus the guilt

With Opti-Ice Premium, a solution specifically designed for the health-conscious ice cream lover, you can achieve a low-fat, high-protein frozen treat without compromising on taste or texture.

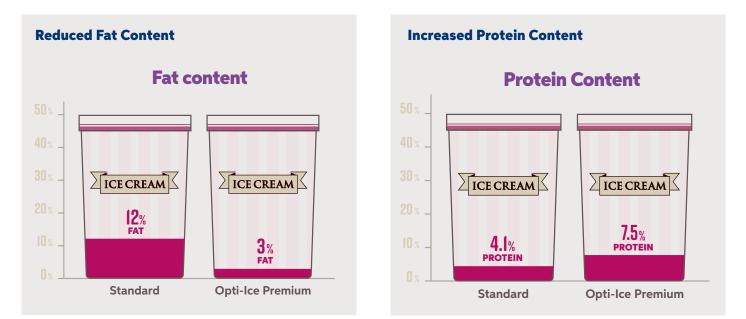
Ingredient		Standard Ice Cream Formula*	Opti-Ice Premium Formula: Higher Protein, Lower Fat
Fat	Double Cream	25.0%	6.3%
MSNF	Skim Milk Powder	10.4%	3.5%
	SolagoHD MPC 8501	0.0%	7.3%
Sugars	Sugar	14.0%	12%
	Fructose	0.0%	2.0%
	Maltodextrin	0.0%	10.1%
Emulsifier/Stabiliser	Emulsifier/Stabiliser Blend	0.45%	0.45%
Flavour	Natural Flavour	0.1%	0.1%
	Water	50.1%	58.3%
Total		100%	100%
Total Solids		37.72%	37.66%
Calculated Nutritiona	lls g/100g		
Kcal		206	161
Fat		12.0	3.0
Carbohydrate		20.2	25.7
Protein		4.1	7.5
*12% fat content formulation			





^{Opti-Ice™ Premium} Functional Benefits

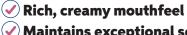
Our Opti-Ice Premium solution performs exceptionally well to deliver the following advantages:



Summary

The increased awareness of health and wellbeing has fuelled the popularity of indulgent snacks that deliver well on protein-rich, better-for-you, delicious tasting ice creams. Our Opti-Ice Premium formulation has overcome the challenges associated with reducing fat to produce an ice cream solution that is:

- **W** Higher in milk protein
- **V** Lower in fat
- ✓ Full-bodied, indulgent taste



Maintains exceptional sensory characteristics
 Natural dairy goodness

The higher protein content demonstrates an excellent ability to mimic the presence of fat through its water holding capacity leading to enhanced viscosity, and through the controlled denaturation of naturally present whey proteins during heat treatment, helping to achieve a full and creamy texture.

Product Range, Packaging and Shelf Life

A range of Opti-Ice solutions for versatile ice cream applications is available including:

- Opti-Ice Premium 20kg bags & 24-month shelf life
 Opti-Ice Value 2
- Opti-Ice Value 25kg bags & 18-month shelf life

Get in Touch

To find out more about our Opti-Ice range of solutions, please contact us at Glanbia Ireland. **Email:** solutions@glanbia.ie

www.glanbiaingredientsireland.com



It is the responsibility of the food business producing products using Opti-Ice ingredients to verify that any product claims are compliant with the regulations in the country of sale. Information in this bulletin is believed to be accurate and is offered in good faith for the benefit of the customer. However, we cannot assume any guarantee against patent infringement, liabilities or risks involved from the use of these products, formulas and information. The information and/or opinions contained in this document may be changed at any time without notice.