



**Innovative**  
*innovative*

**Functional**  
*functional*

# **MG Optimul™**

*for Ice Cream*

**Customised**  
*customised*

**Nutritional**  
*nutritional*



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**MURRAY GOULBURN CO-OPERATIVE CO. LIMITED**



# Optimul Ice Cream

MG Optimul™ Ice Cream is a functional dairy based ingredient which has been developed primarily as a complete alternative to traditional Skim Milk Powder in the formulation of hard pack ice cream products. MG Optimul™ Ice Cream contains wheat proteins which have been profiled to provide excellent emulsification and viscosity control in ice cream without imparting any wheat flavour in the final product. MG Optimul™ Ice Cream has also provided excellent functionality in limited applications trials in soft serve ice cream formulations. MG Optimul™ Ice Cream is a light cream, free flowing powder which has been spray dried for ease of reconstitution with excellent solubility in the ice cream mix.

## MG Optimul™ Ice Cream Benefits

- High emulsion capacity
- Viscosity similar to skim milk concentrate
- Good freeze-thaw stability
- Good colour
- Clean flavour
- Excellent overrun capability
- Economical

## MG Optimul™ Ice Cream Applications

- Hard Pack Ice Cream
- Soft Serve Ice Cream (used in combination with fat source)

## Ingredients:

- Milk Solids
- Wheat Protein

## Chemical & Physical Specifications

Moisture	4.0	% max
Fat	4.0	%
Protein	24.0 - 26.0	%
Lactose	65.0	%
Ash	5.6	%
Scorched Particles	Disc A	or better
Insolubility Index	0.5	ml max
Flavour & Odour	Good	
Appearance & Colour	Normal	
Inhibitory Substances	< 0.003	µg/ml

## Microbiological Specifications

Standard Plate Count	50,000	/g max
Coliforms	N.D.	/g
Yeast & Moulds	50	/g max
Coag.Positive Staph.	N.D.	/g
Salmonella	N.D.	/375g

## Nutritional Information

Energy		Per 100g	1600kJ
Protein			24.3g
Fat			
	- Total		2.1g
	- Saturated		1.0g
Carbohydrate			
	- Total		64.6g
	- Sugars		61.2g
Sodium			910mg
Calcium			370mg
Magnesium			85mg

## Packaging

MG Optimul™ Ice Cream is available in 25kg polyethylene lined multiwall block bottom bags. The packaging features an integrated P.E. liner which is completely sealed for maximum product protection. An easy open feature permits easy separation and removal of the completely sealed inner liner.