

Benefits of Blends in Cheese Processing

Processed cheese is produced from natural cheese along with other dairy ingredients, emulsifiers, salt, food color and water. While producing processed cheese, salts play a vital role during emulsifying and cooking process. CORINO® melting salt blends provide a range of benefits when used in cheese processing:

— Regulation of pH

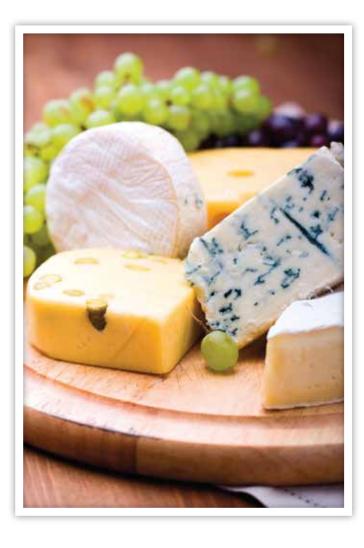
The pH value of the processed cheese determines the consistency of the processed cheese. The pH value of processed cheese varies between 5.5 - 6.0 and can be controlled with the use of CORINO blends to achieve the desired value depending on the application.

— Emulsification

Creaming is a complex, melting salt controlled emulsifying step in processed cheese making. CORINO® blends when used in cheese processing act as emulsifying agent to stabilize the milk proteins. Depending on the application, different phosphate blends with varying creaming strengths can be used to control the texture and firmness of the cheese.

— Ion Exchange Property

Specific condensed phosphates have an excellent ion exchange capability that improves the emulsifying properties and solubility of the milk proteins in the processed cheese matrix. The controlled ion exchange creates a stable processed cheese over the entire shelf life.





The **COrino**[®] Advantage

We, at Aditya Birla Chemicals (Thailand) Ltd., have designed the CORINO® range of customized Solutions specifically targeted to fulfil your cheese processing requirements for various applications.

Offers Ideal Taste

Prevents Water and Fat Separation

Provides Good Texture

Improves Shelf Life

COrino[®] Applications in Cheese Processing

Block Cheese

CORINO® is used to provide improved ion exchange properties to block cheese. It provides firm shape, good taste and elasticity to the cheese with easy to shred and slice properties. It protects processed cheese from crystallization and maintains natural appearance over time.

Sandwich & Burger

Our $\mathsf{CORINO}^{\otimes}$ range of phosphate blends can be used in sliceable processed cheese for sandwich and burgers. It would also help the cheese improve re-melting capability, toasting properties, nonstick on packaging, maintain color and improve product stability.

UHT Milk, evaporated milk

Ultra - High Temperature (UHT) milk is pasteurized at a higher temperature than common pasteurization. Bacteria, air, and light are the basic ingredients that cause milk to go bad and lose nutrients. Unlike other food sterilization methods, UHT treatment takes place before packaging. This process minimizes heat penetration problems and allows very short heating and cooling times, while minimizing unwanted changes in the taste and nutritional properties of the milk product. CORINO® UHT milk blends prevent protein sedimentation therefore the stabilization of milk proteins, delay enzyme induced sweet curdling or enzymatic coagulation, and reduce milk tartar development so fewer cleaning cycles.

Our customized solutions for UHT milk processing

	Application	Product
UHT Beverages	UHT Milk, evaporated milk	CORINO [®] 10 UM
	UHT Milk, evaporated milk	CORINO [®] 11 UM
	UHT Milk, evaporated milk	CORINO® 76 UM
	UHT Milk, evaporated milk	CORINO [®] 88 UM

Spreadable Processed Cheese





Pizza & Cheese Analogue

Using customized CORINO® melting salt blends produces a pizza cheese or cheese analogue with perfect melt, good stretching profile, controlled fat release and easy to shred properties.

OUR CUSTOMISED SOLUTIONS FOR CHEESE PROCESSING

	Application	Product
Pizza cheese	Short cheese stretch	CORINO® 11 SC
	Medium cheese stretch	CORINO® 70 PC
	Long cheese stretch	CORINO® 81 SL
Block cheese	Thermal stable	CORINO® 73 BL
	Thermal stable	CORINO® 76 BT
	Quick melt	CORINO® 77 SL
		CORINO® 76 SL
Cheese spreads	Spreadable	CORINO® 90 SL
		CORINO® 90 SS
	Wedges	CORINO® 75 SP
		CORINO® 85 ST
	Cream cheese / quark	CORINO° 38 BL
Cheese slices	IWS burger slice	CORINO® 84 SLC
		CORINO® 67 BC
pH correction	Alkaline	CORINO® 12 PI
	Acidic	CORINO® 45 PR

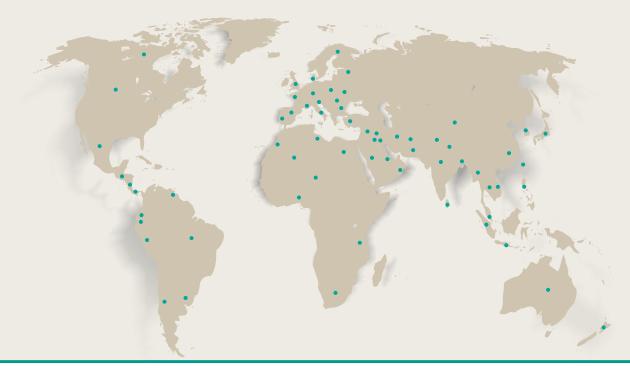


WHERE WE ARE AROUND THE WORLD

Aditya Birla Chemicals (Thailand) Ltd. is part of one of India's most respected industrial houses, the Aditya Birla Group.

- US \$60+billions of Revenues
- Fortune 500 company
- Present across 36 Countries
- More than 140,000 Employees worldwide

Aditya Birla Chemicals (Thailand) Ltd. serves customers across the world operating in diverse industries such as food processing, personal consumer products, pulp and paper detergents, water treatment and more.



OUR CUSTOMISED SOLUTIONS FOR FOOD PROCESSING









Phosphates for Cheese

Phosphates for Mea

Phosphates & Non Phosphates for Seafood

Phosphates for Bakery

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