

## FOOD APPLICATIONS

Application	STBC Products	Function
Surimi	Sorbitol Liquid	cryoprotectant, crystallization inhibitor,
	Sorbitol Powder	flavoring agent/sweetener, shelf-life extender, freezing point depressant
Bakery	Sorbitol Liquid	flavoring agent/sweetener, shelf-life extender,
	Sorbitol Powder	humectant, bulking agent, texture enhancer
Cake Mixes, Cookies, Icing, Filling	Sorbitol Liquid	humectant, bulking agent, texture enhancer
	Sorbitol Powder	crystallization inhibitor, crystal modifier, plastiscizer, shelf-life extender
Pancake Syrup	Sorbitol Liquid	flavoring agent/sweetener, bulking agent, humectant, crystal modifier, shelf-life extender
Sausages	Sorbitol Liquid	cryoprotectant, caramelization/charring reducer,
	Sorbitol Powder	color stabilizer, flavoring agent/sweetener, plastiscizer, shelf-life extender
Frozen Desserts and Ice Cream	Sorbitol Liquid	flavoring agent/sweetener, bulking agent,
	Sorbitol Powder	crystallization inhibitor, crystal modifier, shelf-life extender, texture enhancer freezing point depressant
Frozen Foods, Vegetables and Fruits	Sorbitol Liquid	shelf-life extender, texture enhancer
	Sorbitol Powder	plastiscizer, crystallization inhibitor

## FOOD APPLICATIONS

Application	STBC Products	Function
Dry Roasted Nuts	Sorbitol Powder	texture/palatability enhancer
Shredded Coconut	Sorbitol Liquid	anti-discoloring agent, flavoring agent/sweetener, humectant, shelf-life extender, softener
Chewing gum	Sorbitol Liquid	bulking agent, humectant, plasticizer, flavoring agent/sweetener, texture enhancer, shelf-life extender, softener
Compressed Tablet / Mints	Sorbitol Powder	bulking agent, humectant, plasticizer, flavoring agent/sweetener, shelf-life extender, texture/palatability enhancer
Hard candy	Sorbitol Liquid	bulking agent, flavoring agent/sweetener, crystal modifier, shelf-life extender
Gummy Candy	Sorbitol Liquid	bulking agent, flavoring agent/sweetener, humectant, plasticizer, shelf-life extender, flexibility enhancer, texture enhancer
Fondant	Sorbitol Liquid	gloos enhancer, humectant, plasticizer,
	Sorbitol Powder	shelf-life extender, texture enhancer
Marshmallow	Sorbitol Liquid	bulking agent, flavoring agent/sweetener,
	Sorbitol Powder	crystal modifier
Caramel	Sorbitol Liquid	humectant, softener
Dried Fruits	Sorbitol Liquid	humectant, softener
Peanut/Chocolate Nougat	Sorbitol Liquid	prevent moisture migration to compound coating

## LIQUID PRODUCT SPECIFICATIONS

TEST ITEM	LTS	Amameal	D-SORB 92
1 Description	Colorless, clear liquid. It is odorless and has a sweet taste.	Colorless, clear liquid. It is odorless and has a sweet taste.	Colorless, clear liquid. It is odorless and has a sweet taste.
2 Specific gravity (25/25°C)	Not less than 1.2995	-	Not less than 1.2985
3 Purity			
(1) pH (35% sol.)	5.5 ~ 6.5	5.0 ~ 6.5	5.0 ~ 7.0
(2) Chloride	Not more than 5.0 µg/g	-	-
(3) Sulfate	Not more than 5.0 µg/g	-	-
(4) Heavy metals	Not more than 1.0 µg/g	Not more than 5.0 µg/g	-
(5) Nickel	Not more than 0.5 µg/g	Not more than 2.0µg/g	Not more than 1.0 ppm
(6) Arsenic	Not detected	Not more than 2.0µg/g	-
(7) Iron	Not more than 1.0 µg/g	-	-
(8) Lead	-	-	Not more than 0.5 ppm
4 Reducing Sugar	Not more than 0.03 %	Not more than 0.3 %	Not more than 0.10 %
5 Total Sugar	-	-	Not more than 2.50 %
6 Dry Substance	-	-	70 ± 0.5%
7 D-Sorbitol ( HPLC )	Not less than 97.0 %	46.0 ~ 49.0 %	91.5% min
8 Mannitol ( HPLC )	Not more than 2%	Not more than 2%	Not more than 2%
9 Total Count of Microorganisms	Not more than 150 cfu/ml	Not more than 150 cfu/ml	Not more than 200 cfu/ml

## LIQUID PRODUCT SPECIFICATIONS

TEST ITEM	D-SORB 80	D-SORB 80(HM)	D-SORB 65
1 Description	Colorless, clear liquid. It is odorless and has a sweet taste.	Colorless, clear liquid. It is odorless and has a sweet taste.	Colorless, clear liquid. It is odorless and has a sweet taste.
2 Specific gravity (25/25°C)	Not less than 1.2995	Not less than 1.2995	Not Less than 1.2995
3 Purity			
(1) pH (35% sol.)	5.0 ~ 7.0	5.0 ~ 7.0	5.0 ~ 6.5
(2) Chloride	-	-	-
(3) Sulfate	-	-	-
(4) Heavy metals	-	-	Not more than 1.0 µg/g
(5) Nickel	Not more than 1.0 ppm	Not more than 1.0 ppm	Not more than 0.6 µg/g
(6) Arsenic	-	-	Not more than 0.5 µg/g
(7) Iron	-	-	-
(8) Lead	Not more than 0.5 ppm	Not more than 0.5 ppm	-
4 Reducing Sugar	Not more than 0.15 %	Not more than 0.2 %	Not more than 0.15 %
5 Total Sugar	6.0 ~ 8.0 %	5.0 ~ 9.0 %	10.0 ~ 15.0 %
6 Dry Substance	70 ± 0.5%	70 ± 0.5%	-
7 D-Sorbitol ( HPLC )	80.0 ~ 85.0%	74.0 ~ 85.0%	64.0 ~ 70.0%
8 Mannitol ( HPLC )	Not more than 2%	2.0 ~ 6.0 %	Not more than 2%
9 Total Count of Microorganisms	Not more than 200 cfu/ml	Not more than 200 cfu/ml	Not more than 200 cfu/ml

## POWDER PRODUCT SPECIFICATIONS

TEST ITEM	SPECIFICATIONS
1 Description	A white, crystalline, powder, odourless. Very soluble in water, practically insoluble in alcohol.
2 Purity	
(1) Chloride	Not more than 50.0 ppm
(2) Sulfate	Not more than 100.0 ppm
(3) Heavy metals	Not more than 5.0 ppm
(4) Nickel	Not more than 1.0 ppm
(5) Arsenic	Not more than 3.0 ppm
(6) Lead	Not more than 0.5 ppm
3 Reducing Sugar	Not more than 0.2 %
4 Total Sugar	Not more than 1.0 %
5 Loss on drying	Not more than 1.0 %
6 Residue on ignition	Not more than 0.1 %
7 D-Sorbitol ( HPLC )	Not less than 97.0%
8 Total Count of Microorganisms	Not more than 100 cfu/g