



SCIENCE TECHNICS SDN BHD

(CO. NO. 347481-K)

NO. 16 JALAN WAWASAN 1/KU7 SUNGAI KAPAR INDAH
42200 KLANG SELANGOR DARUL EHSAN MALAYSIA
TEL : 603 - 3291 7001 , 3291 7009 , 3291 7012 FAX : 603 - 3291 0809
Email : stsb@sciencetechnics.com.my
(GST ID NO: 000706232320)

PRODUCT DESCRIPTION AND SPECIFICATION

ULTRAMALTOSE 60 ST

Ultramaltose 60 ST is a maltose syrup containing 60 - 65% maltose.

The sugar profile of Ultramaltose 60 ST is compared to the sugar profile of a standard 42 DE Glucose Syrup below

		Ultramaltose 60 ST	Standard 42 DE Glucose Syrup
Glucose	DP1	< 3%	19%
Maltose	DP2	60 - 65%	14%
Maltotriose	DP3	< 35%	11%
Oligosaccharides	DP4+	< 3%	56%

The advantages of Ultramaltose 60 ST stem from the differences in the sugar profile

- I The decreased DP4+ oligosaccharide level will give a syrup that has a much reduced viscosity. This will enable easier handling and mixing of the syrup into the formulation.
- II The decreased DP4+ oligosaccharide level will result in an increase in sweeter DP2 and DP3. Ultramaltose 60 ST is thus a sweeter syrup. Using Ultramaltose 60 ST sweeter products are obtained. Alternately sugar concentrations may be reduced in order to reduce costs.

Specifications of Ultramaltose 60 ST

Dry Substance	81 - 83 Brix
pH (10% Solution)	5.0 - 5.3
Dextrose Equivalent	50 - 55
Sulphur Dioxide (ppm)	Max. 200ppm

Applications of Ultramaltose 60 ST

- (i) Ultramaltose 60 ST is recommended for the production of hard candy. Specific literature is available.
- (ii) Ultramaltose 60 ST may be used to replace part of the sugar in cordials and soft drinks and ice cream.

When sugar is replaced with a 70 : 30 mixture of sugar and Ultramaltose 60 ST it gives a product with a smoother less harsh sweet taste and a better mouth feel. The sweetness profile obtained is milder and longer lasting.

The incorporation of Ultramaltose 60 ST also enhances the flavour of natural and added flavours.

- (iii) Ultramaltose 60 ST may be incorporated at a rate of 4 – 6% in buns, cakes and pastry to enhance softness.

Packing

In 25 kg plastic pails and 300kg plastic drums.
Alternative packing requirements can be met.

Storage

Ultramaltose 60 ST is to be stored in a cool dry place.

Sulphur Dioxide

A Sulphur Dioxide-free option is available

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