

SPECIFICATION

Product Name: Sucrose Crystal S-30
Chemical Formula: $C_{12}H_{22}O_{11}$
CAS Number: 57-50-1
Molecular Weight: 342.30 g/mol
Appearance: Fine Granules
Odor: Odorless

Chemical Composition

Parameter	Unit	Typical Value
ICUMSA colour by GS 2/3-10	-	<100
So ₂	PPM	Max. 20.00
Polarization	-	99.8
Moisture	%	0.03
Process (Clarification)	-	Phospho sulphitation
Ash	%	0.05
Reducing sugar	%	0.04
Turbidity % by weight	%	0.00
Water soluble % weight	%	0.00
Lead	PPM	0.00

Pesticide	-	0.00
Heavy metal	-	0.00
Toxins	-	0.00
Dextran	-	0.00
Other micro-biological & Organism	-	0.00
Other chemicals	-	0.00
Preservative, emulsifier, stabilizer and food grade colour.	-	0.00
Food safety and standard license no.	-	10015021001805

Physical Properties

- Solubility: Freely soluble in water (forms a clear, sweet solution). Very slightly soluble in ethanol. Insoluble in most non-polar organic solvent.

Shelf Life & Storage

- Shelf Life: 2 years from date of manufacture under recommended storage.
- Storage Conditions: Store in a cool, dry, and well-ventilated area. Keep in tightly closed containers to avoid moisture absorption. Protect from humidity and water exposure (prevents caking/lumping). Avoid direct sunlight and heat. Keep away from strong odors and chemicals (can absorb odors). Use clean, food-grade packaging (HDPE bags or lined containers).

Applications

- Use: Used as a sweetening agent in beverages, bakery products, confectionery, and dairy items. Acts as a sweetener, binder, and base in syrups, tablets, and lozenges. Ideal for candies, chocolates, and fondants due to its fine particle size. Provides sweetness, texture, and browning (caramelization). Quickly dissolves, making it suitable for instant drinks and

premixes. Helps in preserving jams, jellies, and syrups by reducing water activity. Acts as a quick source of energy.

- Dosage: Depends on taste, texture, and product formulation.

Packaging

- Standard Packing: 50 kg woven PP bags with inner liner, 1 kgs and 100 grams, or as per customer requirement.

- Labeling: Product name, batch number, net weight, manufacture date, expiry date, and manufacturer details.

* Specifications are based on the manufacturer's provided specifications.