

SPECIFICATION

Product Name: Niacinamide (Vitamin B3)- China Make
Chemical Formula: C ₆ H ₆ N ₂ O
CAS Number: 98-92-0
Molecular Weight: 122.12 g/mol
Appearance: White or off white powder
Odor: Odorless

Chemical Composition

Parameter	Unit	Typical Value	Specification (Min/Max)
Particle Size	%	99.63%	100% through 20 mesh
Assay	%	99.55%	99.0 – 101%
Melting Point	°C	128 – 130 °C	128.0 – 131.0 °C
Heavy metals	PPM	<5 PPM	Max. 20 PPM
Arsenic	PPM	Conforms	Max. 3 PPM
Cadmium	PPM	Conforms	Max. 1 PPM
Lead	PPM	Conforms	Max. 2 PPM
Mercury	PPM	Conforms	Max. 0.1 PPM
Loss on drying	%	0.18%	Max. 0.50%
Residue in Ignition	%	0.058	Max. 0.10%
Microbiology Test			
Total Plate Count	cfu/g	Conforms	Max. 1000 cfu/g

Yeast & Mould	cfu/g	<10 cfu/g	Max. 100 cfu/g
Coliforms	-	Conforms	Negative
E.Coli	-	Conforms	Negative
Staph. Aureaus	-	Conforms	Negative
Salmonella	-	Conforms	Negative

Physical Properties

- Solubility: Freely soluble in water. Soluble in ethanol. Soluble in acetone. Soluble in methanol. Insoluble in ether. Insoluble in chloroform.

Shelf Life & Storage

- Shelf Life: 3 years from date of manufacture under recommended storage.
- Storage Conditions: Store in a tightly closed container in a cool, dry, and well-ventilated place, protected from moisture, heat, and direct light.

Applications

- Use: Widely used in pharmaceutical, nutraceutical, food, beverage, and cosmetic applications. It plays an essential role in energy metabolism and supports overall nutritional health.
- Dosage: Depends on Age and nutritional status, Intended application, Product formulation, Regulatory requirements, Desired vitamin potency.

Packaging

- Standard Packing: 25 kg Fiber drum 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.