

## **SPECIFICATION**

|                                                                         |
|-------------------------------------------------------------------------|
| <b>Product Name:</b> Vitamin B3 Feed Grade (Niacin)                     |
| <b>Chemical Formula:</b> $C_6H_5NO_2$                                   |
| <b>CAS Number:</b> 59-67-6                                              |
| <b>Molecular Weight:</b> 123.11 g/mol                                   |
| <b>Appearance:</b> White to off-white crystalline powder (free-flowing) |
| <b>Odor:</b> Odorless                                                   |

### **Chemical Composition**

| Parameter            | Unit | Typical Value | Specification                         |
|----------------------|------|---------------|---------------------------------------|
| Solubility           |      | Complies      | Soluble in Boiling Water & in Ethanol |
| Loss on Drying       | %    | 0.42          | Not more than 1%                      |
| Assay on Dried Basis | %    | 96.2          | Not less than 94.5%                   |
| Particle Size        | %    | 99 to 100     | Material Passing Through 40 mesh      |

### **Physical Properties**

- Solubility: Slightly soluble in water; soluble in hot water; sparingly soluble in alcohol; practically insoluble in ether.

### **Shelf Life & Storage**

- Shelf Life: 3 years from date of manufacture under recommended storage.  
- Storage Conditions: Store in a cool, dry, and well-ventilated area. Keep container tightly closed after opening. Protect from moisture, direct sunlight, and excessive heat. Avoid contact with water and humid environments. Keep away from strong oxidizing agents.

### **Applications**

- Use: Essential vitamin supplement in premixes and compound feeds.
- Dosage: depends on animal species, age, diet composition, and veterinary/nutritionist guidance.

### **Packaging**

- Standard Packing: 25 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.