

Product Data Sheet

Melamine Powder - Resin Grade

Description

Description	Melamine Powder is a high-purity nitrogen-rich crystalline compound used primarily as the key raw material for melamine-formaldehyde (MF) resin manufacturing. This resin grade is the standard commercial-purity tier used across decorative laminates, wood adhesives, molding compounds and melamine tableware production.
Applications	Melamine-formaldehyde (MF) resin manufacturing for decorative and high-pressure laminates Wood adhesives – plywood, particleboard and MDF manufacturing Melamine tableware/dinnerware moulding compounds Precursor for flame-retardant derivatives (melamine cyanurate, melamine polyphosphate)
Grade	Resin Grade, Min. 99.0% Purity
CAS No.	108-78-1

Key Benefits

1. High purity (min. 99.0%) supporting consistent melamine-formaldehyde resin polymerisation
2. Low free formaldehyde and moisture content for reliable resin quality and cure performance
3. Fine, consistent particle size for efficient reaction with formaldehyde
4. Widely accepted standard grade across laminate, adhesive and tableware industries
5. Non-hygroscopic, stable solid supporting straightforward bulk handling and storage

Chemical Analysis & Physical Data

Typical Specification

Parameter	Test Method	Unit	Specification
Melamine Content (Assay)	HPLC / Titration Method	wt%	Min. 99.0
Moisture	Karl Fischer / Oven-Drying Method	wt%	Max. 0.2
Ash Content	Gravimetric Method	wt%	Max. 0.05
pH (Aqueous Suspension)	pH Meter	–	7.5 – 9.5
Free Formaldehyde	Titration Method	wt%	Max. 0.1
Melting Point	Standard Melting Point Method	°C	≈ 354 (with decomposition)
Appearance	Visual	–	White crystalline powder

Packaging

Packaging 25 kg PP Woven Bags (with PE liner)
500 kg / 1,000 kg Jumbo Bags (FIBC)
Custom packaging available on request.

Storage & Handling

1. Store in a dry, covered warehouse away from moisture
2. Keep bags sealed until point of use to prevent contamination
3. Keep away from strong acids – can react/decompose under prolonged contact
4. Stack on pallets, away from direct ground contact
5. Use appropriate PPE (dust mask, goggles) when handling – avoid dust generation

Quality Assurance

1. Every batch is tested against the specification above before dispatch
2. A batch-specific Certificate of Analysis (COA) accompanies each shipment, reporting melamine content, moisture and free formaldehyde against this TDS
3. COA available on request prior to shipment for buyer pre-approval
4. Third-party inspection (SGS/Intertek) can be arranged on request for regulated-market shipments

Disclaimer: The information provided in this document is based on our current knowledge and is intended as a general guide. Ochnology Solution Pvt. Ltd. reserves the right to modify specifications without prior notice. Buyers are advised to conduct their own testing for specific applications. A batch-specific Certificate of Analysis (COA) is available on request for each shipment.