



TECHNICAL DATA SHEET (TDS)

Paraformaldehyde

Product Name: Paraformaldehyde
Chemical Name: Paraformaldehyde
Chemical Formula: $(CH_2O)_n$
CAS No.: 30525-89-4
EC No.: 608-494-5
Appearance: White Crystalline Powder
Product Grade: Industrial Grade

Product Description

Paraformaldehyde is a white, free-flowing polymerized formaldehyde powder widely used as a source of formaldehyde in the manufacture of synthetic resins, agrochemicals, pharmaceuticals, disinfectants, coatings, and specialty chemicals. It provides a convenient, concentrated, and low-water alternative to aqueous formaldehyde solutions for industrial applications. Basekim supplies high-quality paraformaldehyde with consistent purity and reliable performance for various manufacturing processes.

Typical Applications

- Urea Formaldehyde (UF) Resins
- Phenol Formaldehyde (PF) Resins
- Melamine Formaldehyde (MF) Resins
- Adhesives and Wood Panels
- Paints and Coatings
- Agricultural Chemicals
- Disinfectants and Sanitizers
- Pharmaceutical Intermediates
- Textile Chemicals
- Foundry Chemicals
- Oilfield Chemicals
- Chemical Synthesis



Key Benefits

- High formaldehyde content
- Low moisture content
- Excellent chemical stability
- Easy handling and storage
- High product purity
- Consistent particle size
- Reliable performance in resin production
- Suitable for various industrial applications

Typical Specifications

Property	Typical Value
Appearance	White Crystalline Powder
Formaldehyde Content	93–96 %
Acidity (Max.)	33 ppm
Bulk Density	0.75–0.85 g/cm ³
pH (10% Aqueous Suspension, 25°C)	4.5–7.0
Ash Content (Max.)	3.0 %
Particle Size	60 Mesh (Typical)

Typical values are based on the manufacturer's Certificate of Analysis and are provided for guidance only.

Physical Properties

Property	Typical Value
Physical State	Solid
Color	White
Odor	Characteristic Formaldehyde Odor
Solubility	Soluble in hot water
Molecular Formula	(CH ₂ O) _n
Molecular Weight	Variable Polymer



Performance Characteristics

- High formaldehyde release efficiency
- Excellent reactivity
- Low water content
- Uniform particle distribution
- Easy incorporation into industrial formulations
- Suitable for continuous and batch manufacturing

Application Guidelines

Paraformaldehyde may be added directly into the reaction system according to process requirements.

Recommended dosage depends on the specific application and desired formaldehyde concentration.

Laboratory evaluation is recommended before commercial-scale production.

Storage

Store in tightly closed original packaging in a cool, dry, and well-ventilated area.

Recommended Storage Temperature: 20–30°C

Protect from:

- Moisture
- Direct sunlight
- Excessive heat
- Strong oxidizing agents

Keep containers tightly closed when not in use.



Shelf Life

Up to 9 months when stored in unopened original packaging under recommended storage conditions.

Packaging

Available in:

- **25 kg Laminated PP Bags**
- **500 kg Laminated Jumbo Bags**

Custom packaging is available upon request.

Handling

- Handle in well-ventilated areas.
- Avoid inhalation of dust.
- Avoid contact with eyes and skin.
- Wear appropriate personal protective equipment.
- Refer to the latest Safety Data Sheet (SDS) before handling.

Quality Assurance

Each production batch is tested to ensure compliance with quality specifications for purity, formaldehyde content, particle size, and other critical performance parameters. A Certificate of Analysis (COA) is available for each shipment.