

## Potassium Hydroxide Flakes 90%

### Product Description

Potassium Hydroxide Flakes (KOH) is a strong inorganic base supplied as white solid flakes with approximately 90% purity. It is produced by electrolysis of potassium chloride followed by concentration and solidification. The product dissolves readily in water forming strongly alkaline solutions and is widely used as a chemical intermediate, catalyst, and pH regulator.

### Chemical Identification

Chemical Name: Potassium Hydroxide

Synonyms: Caustic Potash, Potash Lye

Chemical Formula: KOH

CAS Number: 1310-58-3

Molecular Weight: 56.11 g/mol

Appearance: White to slightly off-white flakes

Solubility: Highly soluble in water with heat generation

### Key Characteristics

- Strong alkaline compound
- Rapid dissolution in water (exothermic)
- Hygroscopic – absorbs moisture and CO<sub>2</sub> from air
- Suitable for chemical processing and manufacturing

### Typical Applications

- Production of potassium carbonate and potassium silicate
- Manufacturing of liquid soaps and detergents
- Biodiesel catalyst
- Electrolyte for alkaline batteries
- pH control in fermentation processes
- Rubber processing

- Agrochemicals and dyestuffs
- Rosin processing and paper chemicals

### Typical Analysis / Specifications

Characteristics	Specifications
KOH	90% min
K <sub>2</sub> CO <sub>3</sub>	0.5% max
KCl	0.015% max
Fe	3 ppm max
NaOH	1% max
Ni	5 ppm max
Bulk Density	1.0 g/cm <sup>3</sup>

### Regulatory & Certifications

- Conforms to Food Chemicals Codex (FCC)
- Food Additive E525
- Kosher & Pareve certified
- Halal compliant



### Packaging

- 25 kg PP Woven bags
- 10-Lb Plastic Pails
- 40 bags on a pallet

### Storage & Handling

Store in tightly sealed containers in a cool, dry, well-ventilated area. Protect from moisture and exposure to air. Avoid contact with acids and incompatible materials.

### Safety

Potassium hydroxide is a corrosive alkaline material capable of causing severe skin and eye burns. Use appropriate personal protective equipment. Refer to the Safety Data Sheet (SDS) for complete safety information.

