



## Technical Data Sheet

### Zinc Chloride (ZnCl<sub>2</sub>)

CAS No.: 7646-85-7  
HSN Code: 28273990

Synonym: (Zinc Chloride Solution)

Molecular Formula: ZnCl<sub>2</sub>

Molecular Weight: 136.30

### Grade: CG – 42

PARTICULARS	SPECIFICATIONS
Appearance	Colourless & Clear Liquid
Purity as Zinc Chloride (ZnCl <sub>2</sub> )	42% (Min)
Zinc (as Zn)	19.7% (Min)
Specific gravity	46 <sup>0</sup> Be (Min) at 15.5 <sup>0</sup> C
Iron (as Fe)	0.01% (Max)
PH	3.2±0.4

*Note: All the afore-mentioned specifications are standard. Specifications can be tailor-made as per requirement.*

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## Properties

<b>Appearance</b>	Colorless and transparent water-solution in liquid state
<b>Odor</b>	Odorless
<b>Melting point</b>	283°C
<b>Boiling point</b>	732°C
<b>Flash point</b>	-19°C
<b>Toxicology Information</b>	When heated emits toxic fumes.
<b>Potential Acute Health Effects</b>	Very hazardous in case of skin contact (corrosive, irritant), eye contact (corrosive, irritant), ingestion, and inhalation
<b>Identification</b>	A solution of it responds to the tests for Zinc and for Chloride.
<b>Organic volatile impurities</b>	Meets the requirements
<b>Nature</b>	Highly hygroscopic and deliquescent.
<b>Relative Density</b>	2.91 (25°C / 4 °c)
<b>Flammability of the Product</b>	Non-flammable

## Handling

- To be handled gently, to prevent the packaging rupture.
- Containers to be kept closed tightly.

## Storage & Transportation

- Should be stored in ventilated, dry coffers.
- Containers must be sealed
- Not to be kept with the consumable goods and feed during storage or shipment.
- Transportation should be covered to prevent rain and sun.

## Packaging

- 35Kg/50kg/320kg HDPE Drum - liquid container
- 2500 Kg HDPE Tank (Returnable)
- 20 MT SS/Rubber/Fiber-lined Tanker

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## **Application/Uses:**

**Dry Cell or Batteries:** Zinc chloride is commonly used in dry cell batteries as an electrolyte.

### **Electroplating**

**Galvanizing, Soldering and Tinning Fluxes:** Zinc chloride is used in fluxes for galvanizing, soldering and tinning.

### **Agriculture**

**Petroleum:** It is an excellent emulsion breaker and is used to separate oil from water

**Water Treatment:** It is used in specialty corrosion inhibitors in cooling towers, potable water, and in gas and oil wells.

**Resins:** It is used in Ion - Exchange resins production.

**Paints:** It is used in for the production of lithopone and as pigment for zinc chromate.

**Rubber:** It is used as accelerator in the vulcanizing process of rubber.

**Glue, Wood work:** Zinc chloride is used in for the preservation of glue, and for the impregnation of timber.

**Textile Printing:** It is used in Mordant dyeing industry, mercerizing agent and sizing agent

**Odor Control:** It reacts with sulfide to minimize release of H<sub>2</sub>S gas in waste treatment facilities.

**Oil-Gas Wells:** High-density solutions of Zinc Chloride give good performance in well completion and work-over operations.

**Herbicide:** It is used to control lichen and moss growing on the roofs of houses and other domestic dwellings.

### **Pharmaceuticals**

**Chemical Synthesis:** It is also used in organic synthesis industry and as dehydrating agent. Zinc Chloride Anhydrous is used for Friedel Craft Reaction, Azotropic or Azeotropic Distillation.

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