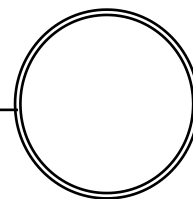


# PINKTO CHEMICALS

A CRISIL Certified Company  
410001301153



*Q.C. Laboratory*

## Technical Data Sheet

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

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

(Synonym: Zinc Chloride Powder)

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

Molecular Weight: 136.30

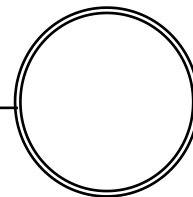
**Grade: HG - 98**

PARTICULARS	SPECIFICATIONS
Appearance	White, Deliquescent Crystalline Powder
Assay	98% (+-1%)
Zinc (as Zn)	47% (min)
Moisture	1% (max)
Sulfate	0.02% (max)
Barium	0.005% (max)
Iron	0.004% (max)
Lead	0.005% (max)
Clarity Test of 50% solution	Solution is Clear and Colourless
Heavy Metal	To Pass Test

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

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## Properties

<b>Appearance</b>	White powder of granule in solid state. Colorless and transparent water-solution in liquid state
<b>Melting point</b>	283°C
<b>Boiling point</b>	732°C
<b>Flash point</b>	-19°C
<b>Toxicology Information</b>	Highly Hygroscopic
<b>Limit of ox chloride</b>	Dissolve 1.0 g in 20 ml of water; add 20 ml of alcohol, and mix. To 10 ml of the mixture add 0.30 ml of 1.0 N hydrochloric acid: the solution becomes perfectly clear.
<b>Relative Density</b>	2.91 (25°C / 4 °c)
<b>Solubility</b>	High solubility in water, deliquescent
<b>Identification</b>	A solution of it responds to the tests for Zinc and for Chloride.
<b>Organic volatile impurities</b>	meets the requirements

## Storage & Transportation

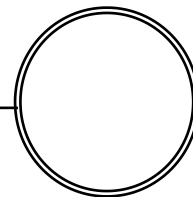
- Should be stored in ventilated, dry coffer
- Bags must be sealed to prevent moisture.
- Not to be kept with the consumable goods and feed during storage or shipment.
- Transportation should be covered to prevent rain and sun.
- To be handled gently, to prevent the packaging rupture.

## Packaging

- 25kg/ 50kg HDPE Marked Bags with double poly-line inside
- 50kg HDPE/Galvanized Drums (from inside)

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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 and calcium 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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