PINKTO CHEMICALS

A CRISIL Certified Company
410001301153

Q.C. Laboratory

Technical Data Sheet

Zinc Chloride ($ZnCl_2$)
CAS No.: 7646-85-7
HSN Code: 28273990

(Synonym: Zinc Chloride Powder)

Molecular Formula: $ZnCl_2$ Molecular Weight: 136.30

Grade: CG - 85

PARTICULARS	SPECIFICATIONS
Appearance	White, Deliquescent Crystalline Powder
Assay	85% (min)
Zinc (Zn)	40.7% (min)

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

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Properties

Appearance	White powder of granule in solid state. Colorless and transparent water-solution in liquid state
Melting point	283°C
Boiling point	732°C
Flash point	-19°C
Toxicology Information	Highly Hygroscopic
Limit of ox chloride	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.
Relative Density	2.91 (25°c / 4 °c)
Solubility	High solubility in water, deliquescent
Identification	A solution of it responds to the tests for Zinc and for Chloride.
Organic volatile impurities	meets the requirements

Storage & Transportation

- Should be stored in ventilated, dry coffers
- 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)

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_2S 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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