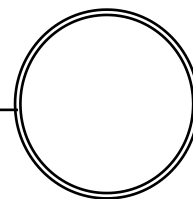


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Technical Data Sheet

Zinc Chloride (ZnCl₂)

CAS No.: 7646-85-7

HSN Code: 28273990

Synonym: (Zinc Chloride Solution)

Molecular Formula: ZnCl₂

Molecular Weight: 136.30

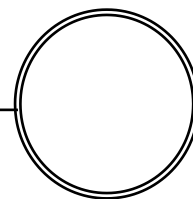
Grade: BG - 41

PARTICULARS	SPECIFICATIONS
Appearance	Colourless & Clear Liquid
Purity as Zinc Chloride (ZnCl ₂)	41% (Min)
Zinc (as Zn)	19.7% (Min)
Specific gravity	46 ⁰ Be (Min) at 15.5 ⁰ C
Alkali & Alkaline Earth	1.5% (Max)
Iron (as Fe)	0.005% (Max)
PH	3.4±0.4
Sodium (as Na)	0.35% (Max)
Sulfate (as SO ₄)	0.01% (Max)
Manganese (as Mn)	0.03% (Max)
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

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

Handling

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

Storage & Transportation

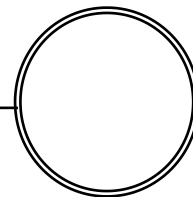
- Should be stored in ventilated, dry coffers.
- Containers must be sealed
- Not to be kept with the consumable goods and feed during storage or shipment.
- Transportation should be covered to prevent rain and sun.

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 H₂S 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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