Summary Technical Data Sheet

Zinc Chloride 42% w/w Soln

Product Name: Zinc Chloride **42% Soln.**
CAS Number: 7646-85-7
HS Tariff No. 3822
Formula: $ZnCl_2$
Molecular weight: 136.30 g/mol
Grade: Technical

Typical Properties

Appearance: clear
Colour: Water-white
Odor: Odorless
Boiling Point: 134^0 C
Freezing Point: -45.56^0 C
Specific Gravity: 1.45
Weight per gallon: 5.49 kg
Zinc Chloride per gallon: 2.30 kg
Zinc per gallon: 1.11 kg.
pH: < 1.0

Product Specifications

Properties	Specifications
$ZnCl_2$ % Min	42%
Sulfates as SO_3	0.03
Total Iron as Fe%	0.0015
NH_4Cl %	0.1
Calcium as $CaCl_2$	0.045
Manganese as Mn %	0.0025
Basicity as ZnO %	0.05 - 0.15
Alkali-chlorides %	0.625
TOC	Negligibe
Total Heavy Metals (Cb, Pb, Cu) %	0.001

Zinc Chloride is used for different applications: zinc plating, processing, preparing metals to be tin coated, galvanized or soldered. Zinc chloride, in combination with water-soluble alkali metal silicate, is used to coat substrates normally infested by algae, such as concrete roofing tiles and other silicate-containing building materials, to prevent or minimize algal infestation that imparts a dark, unsightly appearance. It is also one of the three components to prepare color development materials used for pressure-sensitive copying papers and thermo-sensitive recording papers.

Zinc chloride in concentrated aqueous solutions is used in the textile and paper industries since it effectively dissolves cellulose, starch, and silk. Zinc chloride also has applications as a fire retardant and is added to fabric fresheners. Zinc Chloride 42% Solution is an excellent electrolyte for carbon-zinc and zinc-air batteries.

Storage and Handling: Store in a cool and dry place and in tightly closed container. Steel drums are not satisfactory. Freezing and thawing will not affect product quality

Packaging: 4 L HDPE jugs, 20 L UN tight heads, and HDPE 208 L drums

Transport Regulations: UN #: 1840, ZINC CHLORIDE SOLUTION,8,III

The above information, while not guaranteed, reflects our analysis and believed to be accurate. It is the end user's responsibility, prior to use of the above mentioned product to determine the suitability of the product. Aqua Bond shall not be, directly or indirectly responsible for damages of any nature whatsoever resulting from the use or reliance upon the above information.

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