AQUABOND
Chemistry for Tomorrow

Summary Technical Data Sheet

Product Name: Potassium Chloride
CAS Number: 7447-40-7
Formula: KCL K^+ Cl^-
Molecular weight: 74.55 g/mol.
Grade: Technical Fine

Typical Properties

- Appearance: White random crystals
- Specific Gravity @ 20^0C: 1.984
- Density @25^0C: 1.98 g/ml
- pH @ 20^0C, 50mg/ml H_2O: 5.5-8.0
- Water Solubility @ 20^0C: 340 g/L
- Melting point: 770^0C
- Boiling point: 1420^0C
- Moisture: 400 ppm



Product Specifications

Properties	Specification	Typical
Appearance: White random crystal		
Specific Gravity:	1.97 - 1.99	1.984
pH:	5.5 - 8.0	6.84
Potassium Chloride %	99.42 - 99.52	99.47
Chloride %		47.58
Sodium %	0.157-0.197	0.177
Sodium Chloride %	0.40-0.50	0.50
Moisture ppm	300 - 500	400
Insolubles ppm	30 - 100	50
Magnesium ppm	8 - 12	10
Calcium ppm	10 - 20	15
Iron ppm	2 - 7	4
Lead ppm	0.3 - 1.0	0.6
Silicon ppm	2 - 8	5
Fluoride ppm		< 10
Bromide ppm	100 - 150	120
Sulphate ppm	25 - 75	50
Arsenic ppm		< 0.010
Cobalt ppm	0.001 - 0.003	0.002
Nickel ppm	0.02 - 0.04	0.03
Vanadium ppm	0.001 - 0.003	0.002
Molybdenum ppm	0.003 - 0.007	0.005
Copper ppm	0.02 - 0.07	0.03
Cadmium ppm		< 0.005
Titanium ppm	0.01 - 0.04	0.03
Reagents Added		
Neutralized Amine ppm	190 - 310	250
Particle Size, Tyler Mesh		
+ 28 %	0 - 2	1
+ 35 %	10 - 20	15
+ 48 %	30 - 60	40
+ 65 %	55 - 80	70
+ 100 %	70 - 95	85
+ 150%	80 - 98	94

Potassium Chloride Fine

Aqua Bond distributes potassium chloride by repackaging the material in 25 kg bags for the plating consumer for zinc plating baths.

Storage and Handling: The material is hygroscopic so it is important to keep the bags closed and sealed in a dry area.

Packaging: 25 kg UN Plastic bags

Transport Regulations: Not regulated.

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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