

LIQUIDOW™ Calcium Chloride



The High-Value Solution for Better Roads

Application

LIQUIDOW™ Calcium Chloride is a highly versatile solution used primarily in deicing, dust control and concrete acceleration applications. Other applications include tire weighting, brine refrigeration, wastewater treatment and chemical processing. LIQUIDOW™ is available in a range of concentrations to effectively meet specific application requirements.

When used as a prewetting agent for granular deicers, 32% concentration LIQUIDOW™ reduces overall application rate, which is good for the environment. It also increases melting speed and improves cold weather performance, which helps make roads safe faster.

LIQUIDOW™ – typically in a concentration of 35% or 38% – controls dust on gravel roads by attracting moisture from the air to keep the surface damp, even in hot, dry conditions. This moisture film binds fines and gravel together, resulting in a hard, low-dust surface. Not only does this help improve safety for road users and decrease local residents' exposure to dust particles, it reduces maintenance costs associated with gravel replacement and blading requirements.

Calcium chloride has been used in concrete acceleration applications for more than 100 years. LIQUIDOW™ can reduce set time by as much as two-thirds, even in cold weather. It also improves workability and reduces bleeding, allowing earlier final finishing. Concrete acceleration with LIQUIDOW™ facilitates a quick and economical completion of jobs.

Description

LIQUIDOW™ is a purified inorganic salt solution produced by removing water from a naturally occurring brine solution. Unlike other processes used to produce calcium chloride, the brine process does not involve reactions with toxic chemicals such as hydrochloric acid or ammonia. The National Organic Standards Board noted this distinction when it classified the brine process as “non-synthetic.”

LIQUIDOW™ meets or exceeds ASTM D98 and AASHTO M144 requirements for calcium chloride purity. ASTM classification for LIQUIDOW™ is Type L.

Typical Properties of Common Concentrations

Calcium chloride (%)	28.0	32.0	35.0	38.0	42.0
Potassium chloride (%)	0.75	0.86	0.94	1.02	1.12
Sodium chloride (%)	0.51	0.58	0.63	0.69	0.76
Density (lb/gal)	10.60	10.99	11.28	11.57	11.96
Freeze point (°F)	-46	-17	20	48	69

Properties shown are typical properties, not specifications.



Storage

LIQUIDOW™ is hygroscopic. However, if stored in a closed tank with limited exposure to humid air, it should remain uniform in concentration without requiring additional mixing. If ambient temperature is lower than the product freeze point, handling equipment must either keep the product warm or be drained completely empty when not in service to avoid plugging problems due to crystallization.

For full safety and handling details, refer to the current Material Safety Data Sheet for this product, available at www.oxycalciumchloride.com.

Availability

LIQUIDOW™ is shipped via bulk tank truck, railcar and barge.

For more information or to find an authorized distributor of OxyChem's calcium chloride products, please call or visit our website.

(888) 293-2336

www.oxycalciumchloride.com

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