AQUABOND
Chemistry for Tomorrow

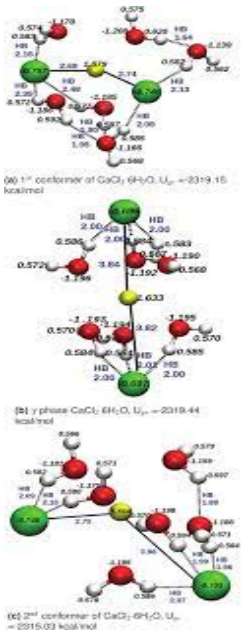
Summary Technical Data Sheet

Calcium Chloride 30% Soln

Product Name: Calcium Chloride 30% Soln
HS Code: 282720
CAS Number: 10035-04-8
Formula: $CaCl_2 \cdot 26H_2O$
Molecular weight: 370.99 g/mol.
Specific Gravity: 1.25 - 1.35 @ 20°C
Product Weight: 10.43 - 11.25 lbs./gal.
pH: < 9.0
Freezing Point: -47˚C

Typical Properties

Appearance: colourless liquid
Solubility: soluble in water



Application of Calcium Chloride 30% Solution

- deicing agent; ice control prevention
- dust control for road surfacing
- tire ballast for heavy equipment all year around
- admixture as a ready mix for concrete curing accelerator
- firming agent for canned vegetables
- enhancement agent for cucumbers and pickles for firmness and flavour
- safe preservative used as anti-browning for fruits
- cheese making as a natural balance between calcium and protein in milk
- spraying apple trees to prevent cork spot and bitter pits in apples
- correction of mineral deficiencies in brewing beer
- brine for refrigeration plants
- water treatment (non-potable) for automotive/aerospace industrial waste
- paper industry for de-inking recycled paper
- improve dye retention by providing water hardness
- assistance in fluoride waste water treatment
- incorporated in mud drilling additive for reduction in shale wetting
- use in the fracking industry for oil, gas, and petroleum
- water absorption for drying petroleum fractions
- additive for increasing oil well density fluids
- dust control on shuttle car railroads in mines of 1.5L for 0.836 m^2 of $CaCl_2$ 30%

Product Specifications

Properties	Specifications	
	Min.	Max.
Calcium Chloride (wt.%) :	28	32
Specific Gravity :	1.29	1.30
Total Alkali Chlorides as NaCl (wt.%) :		6
Total Magnesium as $MgCl_2$ (wt.%) :		0.5
Calcium Hydroxide (wt.%) :		0.2

Properties for Calcium Chloride Solutions at 25°C

% $CaCl_2$	Specific Gravity	Density (kg/liter)	Liters per 1000 kg Solution	Liters per 1000 kg Dry	Freeze Point (°C)	Boiling Point (°C)
0	1 .000	0 .997	1003	n/a	0	100
1	1 .009	1 .006	994	99,406	-1	100
2	1 .018	1 .015	985	49,264	-1	100
3	1 .027	1 .024	977	32,555	-2	100
4	1 .036	1 .033	968	24,204	-3	100
5	1 .045	1 .042	960	19,196	-4	101
6	1 .054	1 .051	952	15,860	-4	101
7	1 .063	1 .060	944	13,479	-5	101
8	1 .072	1 .069	936	11,696	-6	101
9	1 .081	1 .078	928	10,309	-6	101
10	1 .090	1 .087	920	9202	-7	102
11	1 .100	1 .097	912	8289	-8	102
12	1 .110	1 .107	904	7530	-9	102
13	1 .120	1 .117	896	6889	-10	102
14	1 .129	1 .126	888	6346	-11	102
15	1 .139	1 .136	881	5871	-12	103
16	1 .149	1 .146	873	5456	-13	103
17	1 .159	1 .156	865	5091	-15	103
18	1 .169	1 .165	858	4767	-17	104
19	1 .179	1 .175	851	4478	-18	104
20	1 .189	1 .185	844	4218	-20	105
21	1 .199	1 .195	837	3984	-22	105
22	1 .209	1 .205	830	3771	-24	106
23	1 .219	1 .215	823	3577	-27	106
24	1 .228	1 .224	817	3403	-29	107
25	1 .240	1 .236	809	3236	-32	107
26	1 .251	1 .247	802	3084	-35	108
27	1 .263	1 .259	794	2941	-39	108
28	1 .275	1 .271	787	2810	-43	109
29	1 .287	1 .283	779	2687	-47	110
29 .6	1 .294	1 .290	775	2619	-51	110
30	1 .298	1 .294	773	2576	-47	111
31	1 .310	1 .306	766	2470	-37	111
32	1 .322	1 .318	759	2371	-27	112
33	1 .334	1 .330	752	2278	-20	112
34	1 .345	1 .341	746	2193	-12	113
35	1 .357	1 .353	739	2112	-7	115
36	1 .369	1 .365	733	2035	-1	115
37	1 .381	1 .377	726	1963	4	115
38	1 .392	1 .388	721	1896	9	116
39	1 .404	1 .400	714	1832	13	116
40	1 .416	1 .412	708	1771	16	120
41	1 .428	1 .424	702	1713	18	121
42	1 .439	1 .435	697	1660	21	122

Storage and Handling: Store in a dry and cool place and in a tight container, prevent from absorbing moisture. Avoid contact with: bromide trifluoride, 2-furan percarboxylic acid because calcium chloride is incompatible with those substances. See our SDS.

Packaging: 246 kg drums and 1230 kg totes .

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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