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DCAD Plus™

FEED GRADE POTASSIUM CARBONATE

DCAD Plus™ feed grade potassium carbonate is a white, granular compound used to supplement the diets of production animals and horses with potassium to meet their nutritional standards, including proper cation/anion balance.

PRODUCTION SPECIFICATIONS

Potassium carbonate is listed as a mineral feed ingredient by the Association of American Feed Control Officials (57.101 AAFCO). Potassium carbonate is a potassium salt of carbonic acid.

EMPIRICAL FORMULA



BULK DENSITY

73-84 lbs./cu. ft.

Minimum potassium 48.5%

PACKAGING

DCAD Plus is available in 50-pound bags and bulk truckloads.

STORAGE

DCAD Plus should be stored in a cool, dry area, away from incompatible substances such as lime. Avoid contact with lime (as CaO) or (Ca OH₂) and water to prevent possible formation of caustic potash (KOH).

USE INSTRUCTIONS

Use DCAD Plus to supplement diets with potassium to meet the animal's nutritional requirements, including proper cation/anion balance. DCAD Plus provides a source of potassium without the accompanying chlorides or sulfates. Feed to animals such as dairy cattle, beef cattle, sheep, poultry, swine and horses. Use as a positive ion when calculating electrolyte balance: $Meq\{(Na^+ + K^+) - (Cl^- + S^-)\}/100$ g diet dry matter.

DCAD Plus has been specially formulated to be less reactive than regular potassium carbonate. However, the product still has chemical properties such that in contact with lime, strongly acidic, or strongly basic materials and water, a reaction can occur producing heat. In hot, humid weather, feed mixes containing DCAD Plus and substantial quantities of acidic materials or strongly basic materials (for example: magnesium oxide or mono calcium phosphate), have the potential to interact and give off heat.

Adequate separation of these components during the mixing process should prevent this problem from developing and we recommend adding DCAD Plus to the mixer last – after the other ingredients have been mixed. We also recommend that the feed mix be temperature-checked at appropriate time intervals.

DCAD PLUS™ Feed Grade Potassium Carbonate
INFORMATION

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EXAMPLE CALCULATION

Ion	Valence	Diet Concentration Percentage	Milliequivalent Weight (g)	Milliequivalents/ 100 g
Na+	1	0.3	0.0230	13.04
K+	1	0.7	0.0390	17.95
Cl-	1	0.3	0.0355	8.95
S=*	2	0.3	0.0320	18.75

*Frequency not included in calculation of electrolyte balance.

FORMULA

$$\frac{\text{Diet Concentration \%}}{\text{Meg Wt. (g)}} \times \text{Valence} = \text{Meq/100 g}$$

SULFUR

$$\frac{.300}{.032} \times 2 = 18.75$$

RESULTING BALANCE

$$\begin{aligned} (\text{Na} + \text{K}) - (\text{Cl} + \text{S}) &= \text{Cation/Anion Balance} \\ (13.04 + 17.95) - (8.95 + 18.75) &= \\ 30.99 - 27.70 &= +3.29 \text{ Meq/100 g} \end{aligned}$$

ORDER INFORMATION

To place orders, call customer service (800) 631-5591 and for technical information, call (800) 526-3563.

Visit our Web site at www.ahdairy.com.

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PC10250103