



70% Choline Chloride with carrier IFN 7-01-228

Specification:

Appearance – Tan to brown, free-flowing granules

Substrate Composition – Choline Chloride

Substrate Content – 60.0% Choline Chloride (272,000 mg/lb or 600,000 mg/kg) Minimum

Equivalent to 52.1% Choline Hydroxide (236,000 m/lb or 521,000 mg/kg) Minimum

Equivalent to 44.8% Choline cation (203,000 mg/lb or 448,000 mg/kg) Minimum

Loss on drying – 2.0% Maximum

Typical Properties:

	<u>Heavy Metals</u>		<u>Dioxins</u>
Arsenic (As)	≤ 4 ppm	Dioxins TEQ	≤ 1.0 ng/kg
Cadmium (Cd)	≤ 0.5 ppm	Dioxins + PCBs TEQ	≤ 1.5 ng/kg
Fluorine	≤ 500 ppm	Non-dioxin-like PCBs	≤ 10 µg/kg
Lead (Pb)	≤ 10 ppm		
Mercury (Hg)	≤ 0.2 ppm		

Application:

An absorbed Choline Chloride feed additive in a chemically stable form for all species of livestock. Do not use as final feed.

Ingredients:

Choline Chloride, Dehydrated cereal grass and corn cobs. (This product may contain ingredients sourced from GM varieties.)

**Dosage:**

Use in accordance with in house requirements or with current NRC guidelines. There is no restriction for the maximum level of Choline Chloride in feed except for an EU recommendation not to exceed supplemental levels of 1000 mg of Choline Chloride per kg of complete feed for poultry and pigs.

Precautions:

Generally regarded as safe (GRAS). Avoid contact with eyes and skin. Avoid breathing dust. Wash thoroughly after handling.

Storage:

Hygroscopic material. Keep dry in sealed bags. Store below 120°F (50°C). Recommended storage temperature 50° - 90°F (10° - 32°C)

Packaging:

25-kg poly-lined bags, Bulk bags, Bulk shipments

Shelf Life:

Best if used within two years from manufacturing date, if kept dry in unopened bags.