



PHI-CHROME™
CHROMIUM PROPIONATE

...superior mineral products for today's nutritional challenges

Guaranteed Analysis

- Chromium Propionate 0.04% Cr (400 ppm)
- Chromium Propionate 0.40% Cr (4,000 ppm)

Phi-Chrome™ Characteristics:

- Organic source of chromium propionate for cattle, swine, and poultry
- Two concentrations available (0.04% and 0.40%)

Chromium Functions:

- Helps improve glucose metabolism
- May increase milk yield
- Can improve dry matter intake and average daily gain
- Helps improve immune response and reduce cortisol levels during times of stress
- Helps increase muscle percentage

Chromium Deficiencies:

- Impaired glucose tolerance
- Relative insulin resistance
- Metabolic encephalopathy

Chromium is regulated in complete feed for all species and Directions for Use should be followed.

Absorption of chromium from feedstuffs is minimal (0.5-2.0%), and although chromium deficiencies are rare, supplementation ensures adequate levels are absorbed.

Phi-Chrome Chromium Propionate - 0.04%

Product Description

Chromium 0.04% premix from chromium propionate. Supplement for broiler, swine, and cattle.

Label Guarantees

Chromium (Cr), minimum..... 0.04%
 Calcium (Ca), minimum..... 35.00%
 Calcium (Ca), maximum..... 40.00%

Ingredients

Calcium Carbonate
 Chromium propionate
 Mineral oil

Physical Description

Color off-white
 Bulk Density Loose 90lb/ft³
 Bulk Density Tapped 122lb/ft³

Typical Analysis

Cr.....400 ppm

Typical Sieve Profile

+40 Mesh 1%
 40 x 60 Mesh 26%
 60 x 80 Mesh 22%
 80 x 100 Mesh 13%
 100 x 200 Mesh..... 22%
 -200 Mesh..... 16%

Directions For Use

Broilers: To be included in broiler rations at no more than one lb per ton of complete feed; one pound per ton will provide 0.2 ppm (parts per million) chromium from chromium propionate.

Swine: To be included in Swine rations at no more than one lb per ton of complete feed; one lb per ton will provide 0.2 ppm (parts per million) chromium from chromium propionate.

Cattle: To be included in cattle rations at no more than 2.5 lb per ton of complete feed; Two and one half lb per ton will provide 0.5 ppm (parts per million) chromium from chromium propionate.

Chromium Propionate - 0.40%

Product Description

Chromium 0.40% premix from chromium propionate. Supplement for broilers, swine, and cattle.

Label Guarantees

Chromium (Cr), minimum 0.40%
 Calcium (Ca), minimum 35.00%
 Calcium (Ca), maximum 40.00%

Ingredients

Calcium Carbonate
 Chromium propionate
 Mineral oil

Physical Description

Color Green
 Bulk Density Loose 90lb/ft³
 Bulk Density Tapped 122lb/ft³

Typical Analysis

Cr.....4000 ppm

Typical Sieve Profile

+40 Mesh 1%
 40 x 60 Mesh 26%
 60 x 80 Mesh 22%
 80 x 100 Mesh 13%
 100 x 200 Mesh 22%
 -200 Mesh 16%

Directions For Use

Broilers: To be included in broiler rations at no more than 0.1 lb per ton of complete feed; 0.1 lb per ton will provide 0.2 ppm (parts per million) chromium from chromium propionate.

Swine: To be included in swine rations at no more than 0.1 lb per ton of complete feed; 0.1 lb per ton will provide 0.2 ppm (parts per million) chromium from chromium propionate.

Cattle: To be included in cattle rations at no more than 0.25 lb per ton of complete feed; 0.25 lb per ton will provide 0.5 ppm (parts per million) chromium from chromium propionate.

References Available Upon Request