

Emerald-C™

Copper Carbonate-Based Mineral Feed Ingredient

Why Emerald-C™?

- Maintains animal gut health and increases performance
- Does not contain sulfates or chlorides
- Excellent source of carbonate for feed premix
- Stable, non-reactive with other feed ingredients
- Superior bioavailability optimizes copper absorption
- Non-dusting powder provides exceptional flowability
- Enhanced formulation and health benefits versus copper sulfate
- Comparable performance at a lower cost versus leading, chloride-based TBCC product

Emerald-C™ is a chloride-free, OMRI listed mineral feed ingredient proven to enhance animal health and performance. The free-flowing, copper carbonate-based green powder is ideally suited for humid environments. Extremely easy to handle and blend, Emerald-C is non-hygroscopic and insoluble in water.

Emerald-C™ offers the simplest and most concentrated form of copper (56%) available with greater bioavailability than copper sulfate. It is highly stable and non-reactive with vitamins and other essential premix ingredients. As a bound copper, Emerald-C becomes active in the digestive system, where it counts!

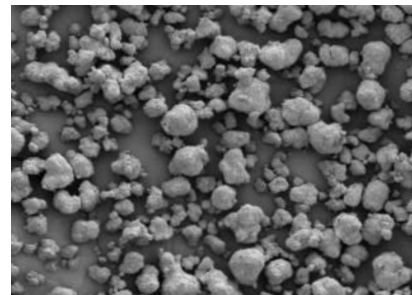
Emerald-C™ is manufactured in the USA at our HACCP and AFIA certified safe feed/ safe food New Jersey facility. Independent analyses of Emerald-C demonstrate that the product easily meets rigid EU criteria for the presence of dioxins and polychlorinated biphenols (PCBS).



Emerald-C™ is specially formulated to deliver increased bioavailability and performance, while providing a copper source with no sulfates or chloride.



Emerald-C™ is also available as a granular product to accommodate increased flow and equipment requirements.

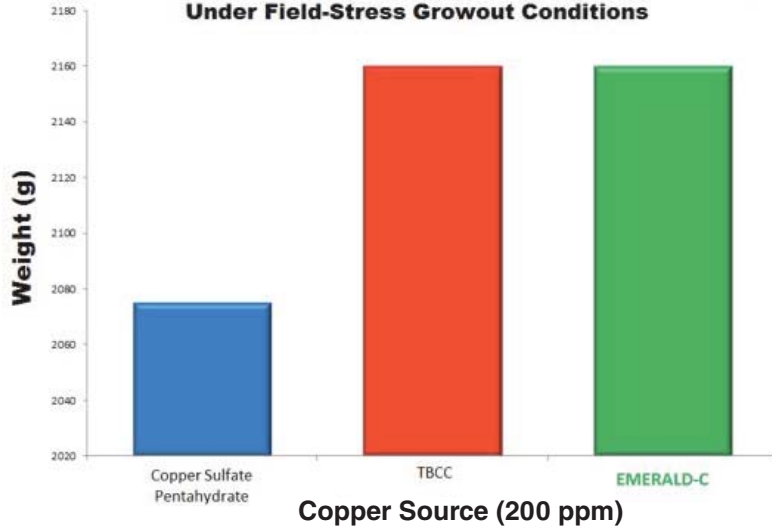


Emerald-C™ powder particles have spherical morphology which enables ease of flow and premix blending.

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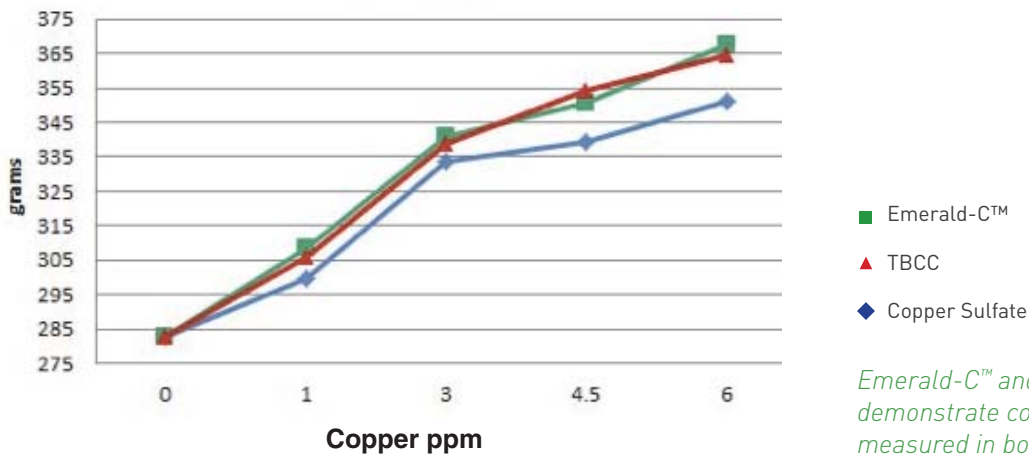
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**Final Weight of Broilers Reared to Market Age (42 Days)
Under Field-Stress Growout Conditions**



Emerald-C™ significantly outperforms copper sulfate and is comparable to the leading TBCC product.

Body Weight



Emerald-C™ and the leading TBCC product demonstrate comparable bioavailability as measured in body weight.

Emerald-C™ Composition	Typical Analysis (maximum)	Physical Properties
<ul style="list-style-type: none"> Copper (II) Carbonate Copper min: 55% 	<ul style="list-style-type: none"> Copper: 56%* Iron: 0.3% Lead: 30 ppm Cadmium: 5 ppm <p>*versus 25.2% in copper sulfate.</p>	<ul style="list-style-type: none"> Green, non-dusty powder Particle size: ~20 µm Bulk density: ~80 lb./ft.3 Insoluble in water at ≥ pH 3 <p>Packaging: 50 lb. bags or 2000 lb. sacks</p>