



The Mintrate® Advantage

IntelliBond® C Trace Mineral – Smart, Proven, Trusted and Economical*

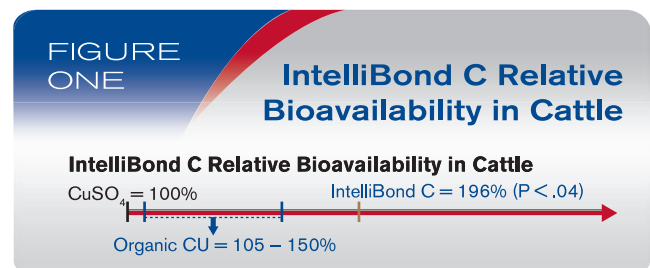
IntelliBond C trace mineral provides beef producers with a proven highly utilizable and effective source of copper for use in cattle supplements and rations.

IntelliBond C Trace Mineral Highlights

- IntelliBond C is a hydroxy trace mineral, a new category of trace minerals.
- Hydroxy trace minerals are naturally-occurring crystalline molecules composed of strong covalent bonds identical to the covalent bonds found in the best quality organic trace minerals. Sulfate trace minerals are composed of weak ionic bonds which are more rumen soluble and have lower bioavailability in the animal.
- Effective rumen bypass – IntelliBond C has a low solubility above a pH of 4.0 and thus is not as readily soluble in the rumen.
 - Minimal antagonistic compound formation in the rumen
 - Non-detrimental to rumen fermentation and fiber digestion
 - Delivered into the animal's blood stream where it is easily assimilated
- No adverse impact on mineral or supplement palatability – Supports optimized free-choice product intake.
- Non-hygroscopic – Does not attract moisture; thus, avoiding essential nutrient destruction and clumping in free-choice mineral supplement.
- Minimal feed reactivity in premixes and feed supplements – Helps support essential nutrient stability.
 - Minimal, if any, impact on direct fed microbials, vitamins, lipids, methoprene, etc.

 IntelliBond® C

Basic copper chloride
58% copper



- 150-250 micron particle size – Improves handling and mixing; less dust.
- High ruminant relative bioavailability.
 - Compared to sulfate forms of trace minerals, IntelliBond C trace mineral averages about 200% bioavailability; whereas, organic forms range from 100% to 150%, but average near 115%. (See Figure One).
- IntelliBond C trace mineral, when fed at reduced levels, is research-proven to be equally effective as sulfate and organic forms fed in combination.
- High product potency – Means lower inclusion rate of IntelliBond C trace mineral in the formula, allowing more “space” in the formula for other beneficial nutritional components.
- High purity – IntelliBond C trace mineral is sourced from high purity metal feedstocks to ensure strict compliance with Micronutrients’ and industry quality standards.

MINTRATE[®]

- Consider basal ingredient trace minerals in formulations.
 - In ruminant diets, the feedstuffs consumed provide a valuable portion of the animal's required daily trace mineral needs.
- New formulas – When highly bioavailable IntelliBond C trace mineral is included in a free-choice mineral mixture, the ppm level for copper on the feed tag will be substantially lower in comparison to mineral products using “traditional” copper sources. However, the required amount of copper will still reach the small intestine of the animal, providing the necessary copper for absorption into the blood stream.
- Cost effective – IntelliBond C trace mineral allows for full replacement of sulfate and organic combination trace minerals at a lower cost, and IntelliBond C's superior bioavailability allows for up to a two times reduction in inclusion rates compared with inorganic minerals.

Mintrate products utilize IntelliBond C, hydroxy form of copper, to build better performance for cattle on forage-based diets.

IntelliBond . . . Smart, Proven, Trusted and Economical.

IntelliBond product information provided courtesy of Micronutrients.

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