

IntelliBond[®] C & IntelliBond[®] Z

IntelliBond application and value in broilers



Why copper and zinc?

Copper and zinc are essential trace minerals required for modern poultry production. Both of these minerals function within the bird to maintain optimal nutritional status as well as productivity. Copper, when fed at higher levels, has been shown to provide improvements in both bird growth and feed efficiency. Following its absorption in the intestinal tract, zinc works within the bird to optimise immune function, skin and bone integrity, reproduction, bird growth and efficiency.

The mineral source you choose can have a large impact on the level of results seen in the animal, with independent research showing significantly different results between various trace mineral sources. Utilising IntelliBond C and IntelliBond Z can result in improvements in the mill, the feed, the bird and the environment over other sources.

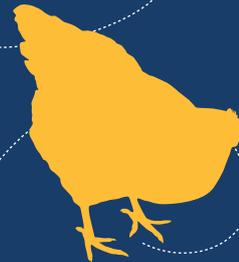
IntelliBond® trace minerals meet the **highest quality standards** available in the poultry industry today



The result is a significant reduction in the binding of essential nutrients **in the feed such as vitamins and fats.**



IntelliBond's low hygroscopicity **enhances the stability of premixes** compared to sulphate sources.



This ensures the **nutrients you have paid for are available to the bird** and can support efficient production and healthy growth.

Key advantages of IntelliBond C & IntelliBond Z

Low Solubility

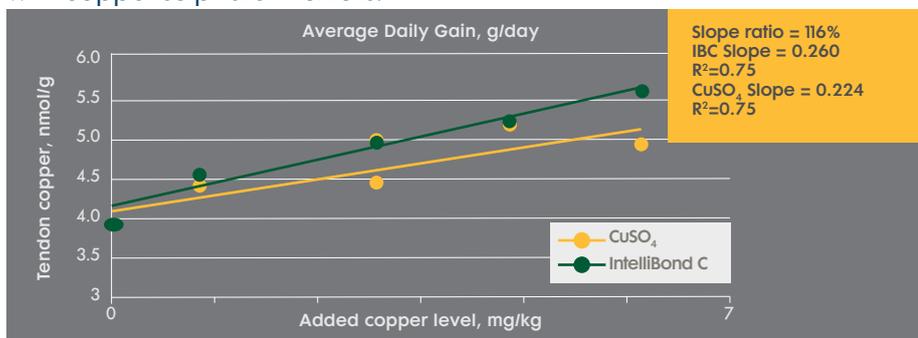
IntelliBond trace minerals avoid being tied up with antagonists in the upper gastrointestinal tract. More of the copper and zinc contained within IntelliBond are available to the bird in the lower gastrointestinal tract, where they are efficiently absorbed. These minerals can play an additional role in optimising gut health and immune function.

Unique Crystalline Structure

Ensures the consistent, sustained release of copper and zinc within the lower gastrointestinal tract, optimising absorption and overall availability within the bird.

Improved relative availability of IntelliBond C and IntelliBond Z compared with copper and zinc sulphate. Ensures an improved level of mineral absorption to support bird well-being and growth.

Figure 1. IntelliBond® C (IBC) relative bioavailability compared with copper sulphate in chicks.



IntelliBond C & IntelliBond Z have **many proven advantages in broilers** over sulphate-based mineral forms.*

*Proven with dozens of independent research evaluations.

Why is IntelliBond® the smart choice?

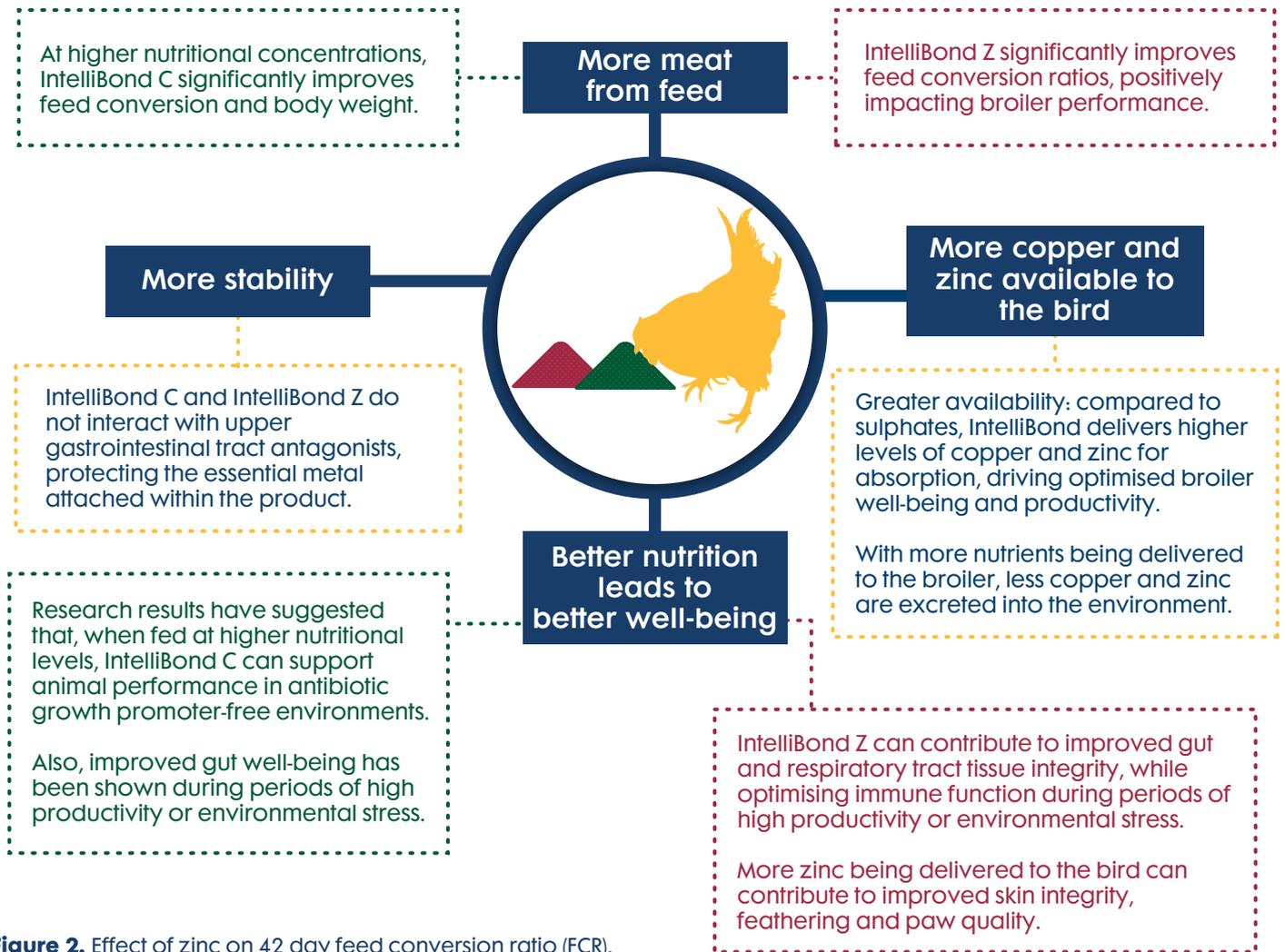


Figure 2. Effect of zinc on 42 day feed conversion ratio (FCR).

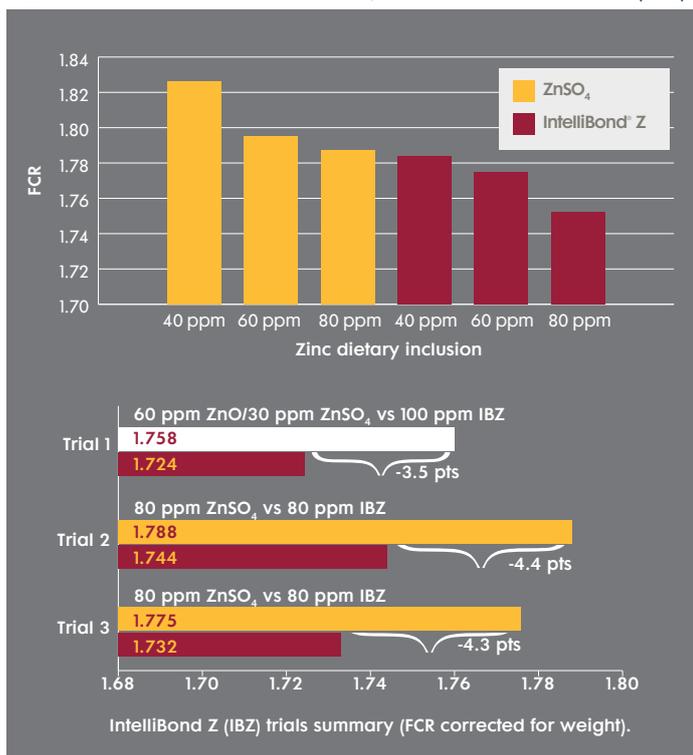
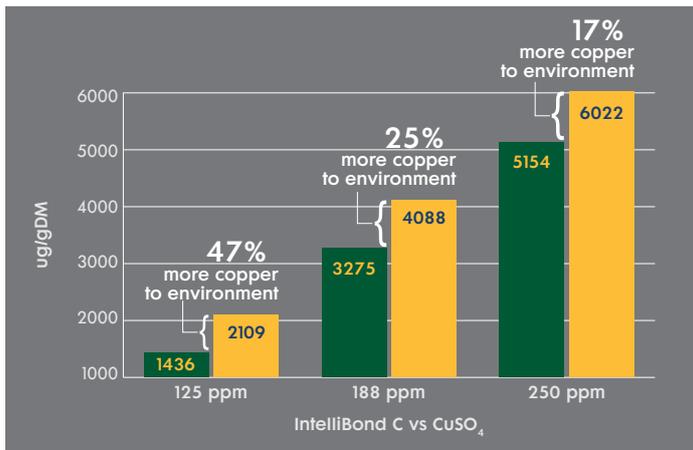


Table 1. Improvement in feed conversion ratio (FCR) in birds when using IntelliBond® C vs copper sulphate.

Research location	IntelliBond C FCR improvement
University of Florida	2.5 pts
PARC Institute	5.2 pts
PARC Institute	5.0 pts
Foster Farms	4.0 pts
Purdue University	9.0 pts
UC Davis	5.0 pts
AH Pharma	3.0 pts
Southern Poultry	3.5 pts
AH Pharma	5.0 pts
AH Pharma	3.0 pts
U Maryland/USDA	8.5 pts
Southern Poultry	5.8 pts
Texas A & M University	7.6 pts
Average increase in FCR improvement using IntelliBond C vs CuSO₄	5.2 pts

Figure 3. IntelliBond® C vs copper sulphate (CuSO₄): leachable copper from poultry excreta.



IntelliBond® portfolio

IntelliBond products represent one of the highest quality trace mineral technologies available for animal nutrition today, creating a comprehensive portfolio to meet a wide range of animal performance needs. Our minerals are designed to have ideal reactivity to avoid destructive interactions and promote availability, driving optimised animal health and productivity. IntelliBond mineral quality is assured by one of the most robust quality control and quality assurance programs in the industry.

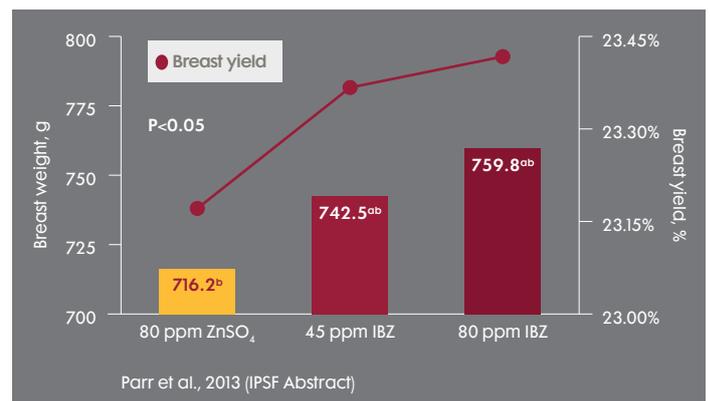
- **IntelliBond C** (Copper hydroxychloride)
- **IntelliBond Z** (Zinc hydroxychloride)
- **IntelliBond M** (Manganese hydroxychloride)

Table 2. IntelliBond® C (IBC) performance in broilers.

Treatment	Weight Gain (kgs)	FCR (kg:kg)
Cobb broilers		
IBC 0-21 days	0.702 ^a	1.297 ^a
CuSO ₄ 0-21 days	0.683 ^b	1.342 ^b
IBC 0-42 days	2.022 ^a	1.799 ^a
CuSO ₄ 0-42 days	1.986 ^b	1.835 ^a
Ross broilers		
IBC 0-21 days	0.717 ^a	1.322 ^a
CuSO ₄ 0-21 days	0.695 ^b	1.356 ^b
IBC 0-42 days	2.048 ^a	1.817 ^a
CuSO ₄ 0-42 days	2.006 ^b	1.856 ^b

IntelliBond C maintains feed stability and improves broiler performance compared to CuSO₄.

Figure 4. IntelliBond® Z (IBZ) vs zinc sulphate impact on breast meat yield (% HCW).



Our numerous food safety and quality certifications mean sellers and users from around the world can be confident when they turn to IntelliBond trace minerals.



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