



IntelliBond®

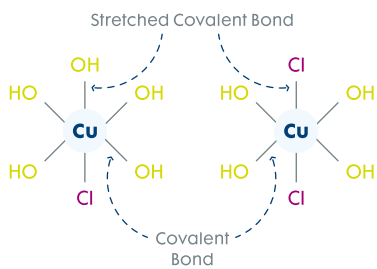
Smart mineral, Smart nutrition, Smart decision

IntelliBond® C, IntelliBond® Z and IntelliBond® M

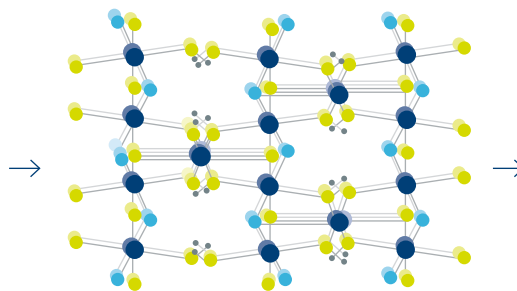


Strong covalent bonds and a unique crystalline structure limit the exposure of IntelliBond hydroxy trace minerals to antagonists in the feed and in the rumen. Slow dissociation of IntelliBond occurs in the abomasum, making the mineral available for absorption by metal transporters in the intestinal tract.

Molecular structure



Crystalline Structure



OptiSize™ particle

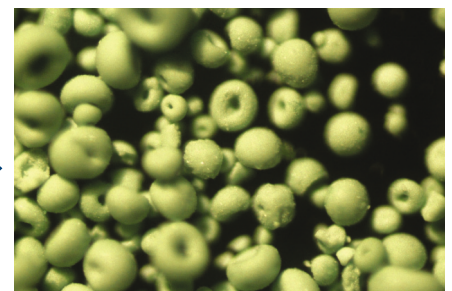


Figure 1. A diagram illustrating the crystalline structure of IntelliBond® C. stretched covalent bonds are within the sub units, which together make the crystals.



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Smart Minerals: Rumen stability

IntelliBond hydroxy trace minerals may have low solubility in the rumen environment.

Figure 1. Effect of copper source on in vitro solubility.

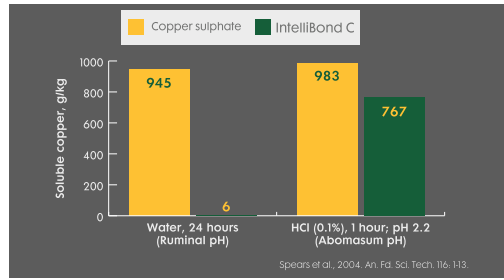


Figure 3. IntelliBond C may have lower copper solubility in the rumen.

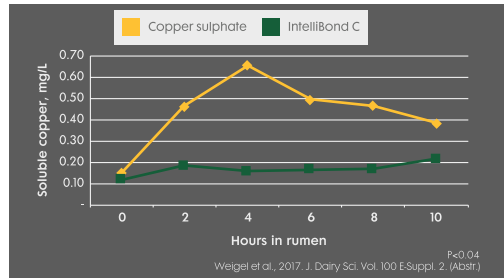
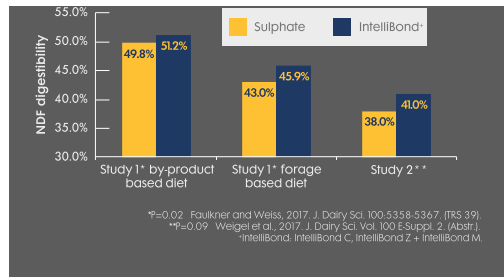


Figure 5. IntelliBond trace minerals may support improved neutral detergent fibre (NDF) digestibility. The low rumen solubility of IntelliBond minerals may minimise the amount of free trace minerals in the rumen. Free trace minerals can be toxic to rumen microbes, including fibre digesting bacteria.



Preferential intake

When calves were given a choice between supplements identical in everything except copper, zinc and manganese source, they preferred the IntelliBond supplement over the inorganic and the organic supplements.

Figure 7. Preferential intake (preference of calves).

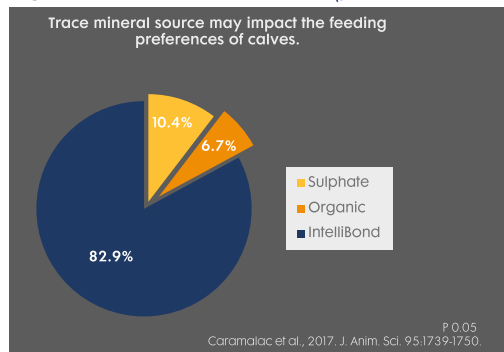


Figure 2. IntelliBond Z may have lower zinc solubility in the rumen.

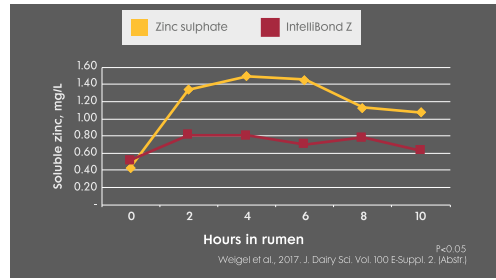
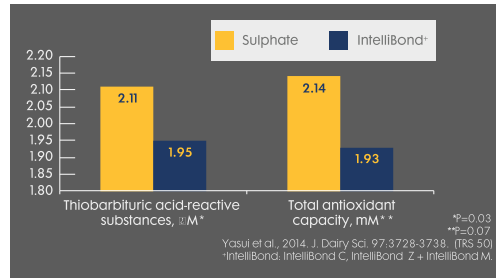


Figure 4. Oxidative balance graph.



Selko® IntelliBond® Trace Minerals

Smart Nutrition:

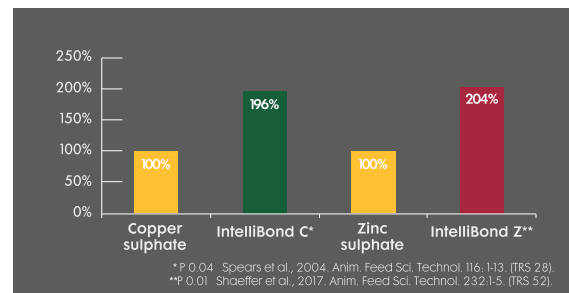
IntelliBond C and IntelliBond Z may be more available than copper sulphate and zinc sulphate

IntelliBond is designed for optimal absorption and availability.

Protected from **antagonists**

IntelliBond trace minerals are protected from antagonistic interactions in the rumen due to their low solubility.

Figure 6. IntelliBond C and IntelliBond Z may be more available than copper sulphate and zinc sulphate.



IntelliBond® portfolio

IntelliBond represents the latest trace mineral technology.

IntelliBond offers the purest source of copper, zinc and manganese available to the industry today via:

- IntelliBond C (Copper hydroxychloride) - 54%
- IntelliBond Z (Zinc hydroxychloride) - 55%
- IntelliBond M (Manganese hydroxychloride) - 44%



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.

Disclaimer: The information in this document is believed to be correct as of the date issued. Given the variety of factors that can affect the use of a Selko product the user is responsible for determining whether the Selko product and dosage is fit for a particular purpose and suitable for the user's method of use. Selko B.V. or any of its affiliates makes no warranties, including but not limited to warranty of merchantability or fitness for a particular purpose. Product labelling and associated claims may differ based on government requirements. All quotations, orders, confirmations and transactions are subject to our general conditions of sale (www.nutreco.com). The applicability of any other terms and conditions is explicitly rejected. Trouw Nutrition, The trademarks shown in this document are registered in the Netherlands, the USA and other countries. These trademarks are owned by Selko B.V. or Micronutrients USA LLC or Trouw International B.V. IntelliBond products are registered as Selko IntelliBond in the Netherlands and other countries.

