

The Trow Nutrition range of cattle products includes:

#### Farm minerals

The Maxcare mineral range is specifically formulated using the latest research. The highest quality raw materials, including Optimin® chelated trace elements, are used to ensure maximum bio-availability and palatability to the animal. Includes powdered minerals and mineral buckets.

#### Supacare

The Supacare range provides cost effective performance.

#### Farm packs

Top quality products that have been formulated to aid specific conditions on farm.

#### Premixes

Reliable pre-mixtures for feed compounders. The proven Opticare range provides cost-effective solutions for all requirements.

#### Protected proteins

The range includes Sopralin and Lactamine Plus – both proven to be excellent fishmeal alternatives.

#### Feed ingredients

Products such as amino acids, vitamins and choline are coated within a fatty acid matrix, to protect the ingredients from rumen degradation. The range also contains a rumen protected fat. For further details see the Nordos leaflet.



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Trouw  
Nutrition's  
reliable  
solutions  
for

beef  
& dairy





## The Trouw Nutrition approach to cattle feeding

**Trouw Nutrition UK** specialises in ruminant nutrition, supplying a full range of high quality products including supplements, premixes, minerals and protected proteins.

We work with customers, addressing their needs and solving their problems. We think ahead of the market, researching and producing safe, healthy feed products that meet the most exacting requirements, with the traceability and technical support our customers want.

We understand that maintaining consumer confidence in meat and milk production has become increasingly demanding, and that working at the beginning of the feed-to-food chain is a huge responsibility - a responsibility we share.

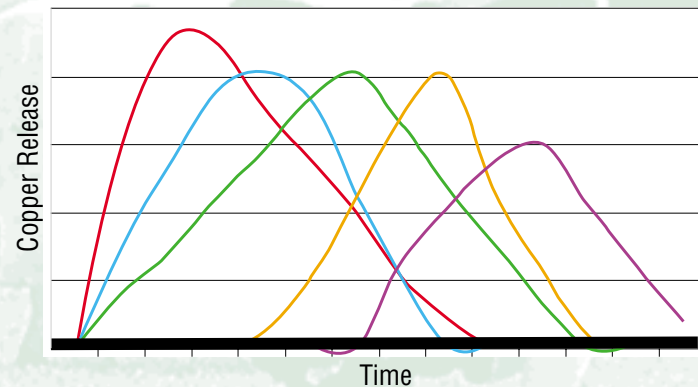
## Research and development

**Trouw Nutrition** is strongly committed to research and development. Our customers benefit from access to research centres, knowledge and experience from all our sister companies, as we are part of Nutreco – one of the largest feed companies in the world.

## Cuprex 5

Cuprex 5 is a copper supplement, developed by Trouw Nutrition, which is included in all Maxcare cattle farm minerals & Opticare cattle supplements. It contains 5 copper sources for improved bio-availability in situations where forage contains high molybdenum, iron and sulphur levels.

### Cuprex 5 - differential copper release



High levels of sulphur, iron and molybdenum in forage can have serious consequences on copper absorption and availability. The unique blend of copper sources in Cuprex 5 has been specially formulated to overcome this copper “lock up” as well as providing a phased release of copper in the rumen. The effect being that more copper is absorbed and retained by the animal and the negative effects of excess molybdenum are reduced.

## Protected proteins

The highly productive ruminant has a metabolisable protein requirement in excess of its capacity to produce microbial protein in the rumen. To obtain maximum production efficiency this protein deficit must be corrected by including controlled amounts of high quality Digestible Undegradable Protein (DUP) in the diet.

**Trouw Nutrition's Protected Protein** range includes Sopralin and Lactamine Plus. Sopralin is a protected soya bean meal, which as a result of the patented process used by Trouw Nutrition, provides a high level of DUP.

**Lactamine Plus** is a blend of Sopralin and other bypass vegetable proteins. It offers a balanced amino acid supply, including a source of protected methionine and added fish oil, providing a similar fatty acid profile to fishmeal.

### Net Absorbed Amino acids

Amino Acids	Fishmeal (g/kg DM)	Lactamine Plus (g/kg DM)
Methionine	8.77	10.23
Lysine	25.74	25.45
Leucine	24.55	34.69
Isoleucine	14.54	19.36
Threonine	14.56	17.49
Valine	16.54	20.07

In dairy cows, high DUP levels have been shown to improve milk yield and milk protein production.

In dry cows, high levels of DUP have been shown to improve subsequent milk yield, quality and fertility. In calves, heifers and beef cattle it can help to increase live weight gain.

**For specific trial information, please contact us**