

TETENAL

www.tetenal-chemicals.com



Metal-Chelates/ Chelate Mix

Customized Micronutrient Solutions

Synthetic **Metal-Chelates**

Synthetic chelating agents and metal complexes play an important role in various fields of industry, water treatment and agriculture. Chelating agents are organic compounds and exhibit the ability to sequester metal ions and keep the ions mobile and active under different chemical conditions. This chemical property is called the chelate effect. Chelates are characterized by strong binding affinity to metal ions, offer a good water solubility and are stable over a wide pH and temperature range. Plants, for example, are able to utilize chelated metals directly. Thus, a much smaller and accurate dosage is possible.

This is where Tetenal comes into play, since we can offer you from our own production a wide range of liquid metal-chelates, blends as per your specification and also micro-granulated solid chelates.



Contract manufacturing at Tetenal offers you:

- Raw material sourcing
- Blending and refinement
- Filling and packaging
- Quality management and control
- Warehousing and logistics



Tetenal Metal-Chelates

We offer you from in-house production:

- **Liquid metal-chelates**

- Copper diammonium EDTA 9% Cu
- Ferric ammonium EDTA 7,5% Fe
- Manganese dipotassium EDTA 6% Mn
- Zinc diammonium EDTA 9% Zn
- Ferric ammonium citrate 8% Fe
- Ferric diammonium DTPA 6% Fe

NEW

- **Individual blends of liquid metal-chelates**, e.g. as micronutrient solutions for specific applications in agriculture, horticulture, viticulture and others
- **Microgranulation of powder chelates** for safe, dust-free handling of either single chelates or chelate blends
- **Micronutrient solutions from chelated and non-chelated metal ions** for optimizing the yield in biogas production



Our core competence comprises:

- **High quality standards** of a renowned specialty chemistry manufacturer
- **Research & Development expertise** to realize individual customer requirements
- Flexible production of **small minimum batch-sizes**:
 - Liquid metal-chelates as from 1.000 lt batches
 - Microgranulated metal-chelates as from 600 kg batches
- **Packaging** of final product incl. labelling
- World-wide **logistic services**
- **DIN EN ISO 9001** certified management system



Take advantage of our expertise for your projects.
Contact us on www.tetenal-chemicals.com

Company premises in **Norderstedt**
near Hamburg (Germany)



Tetenal – your partner for specialty chemicals is providing raw materials for the following business fields:

- Food ingredients
- Pharmacy
- Agriculture, micronutrients
- Detergents
- Water treatment
- Chemical industry
- Surface treatment of metal
- Photography

We have been developing and manufacturing premium specialty chemicals for more than 160 years at our premises – 26000 m² of production and warehousing space in Norderstedt near Hamburg/Germany. Due to ground-breaking innovations, premium product quality and substantial services we are offering competent and market-compliant solutions e.g. in the field of imaging technologies, production of metal chelates and additional highly specialized chemical products for specific markets.

Tradition in terms of competence, know-how and innovation in line with a **broad trade portfolio of raw materials** is essential and allows us to meet the continuously rising demands to R&D and production in the fields of:

- Aquaristics
- Water treatment
- Fertilizers
- Imaging technologies

Tetenal Europe GmbH **Specialty Chemicals & Contract Manufacturing**

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