

High-performance chemical and mineral specialties. Since 1894.



**Product range**  
Nutrition Minerals



- High purity grades
- Proprietary specifications and quality assurance
- Comprehensive documentation
- Dedicated team across Europe
- Long-term partnerships with qualified manufacturers
- Highly qualified technical and commercial support
- Flexibility in procurement to meet individual volumes and packaging requirements
- Established HACCP concept

## Product applications

Our minerals can be used in coated and effervescent tablets, capsules, ready-to-drink sachets, liquid applications and more. They meet the standard requirements of pharmacopeias, European regulations and food laws, and are available in different grades, particle size distributions and bulk densities; from light to heavy powders, directly compressible and free-flowing granules.

## Inorganic salts

Metal	Salt	Grade	Suitability		Dosage forms		Other properties
			Food	Pharma	Powder	Gran.	
Magnesium	oxide	MO	• (E530)	• (EP, API)	•	•	Light, heavy
	carbonate	MC	• (E504 (ii))	• (EP, USP)	•	•	Light, heavy
	hydroxide	MH	• (E528)	• (EP, USP, API)	•	•	Light, heavy
	phosphate	TMP		• (USP)	•		
	chloride	MCL	• (E511)		•		
Calcium	carbonate	CC	• (E170)	• (EP )	•	•	
	hydroxide	CH	• (E526, FCC)		•		
	chloride	CCL	• (E509)		•		
	phosphate	DCP, TCP	• (E341(ii))	• (EP, USP)	•	•	Anhydrous
Zinc	oxide	ZO		• (EP, USP)	•		
	sulphate	ZS		• (EP, USP)	•		Hydrate
Copper	sulphate			• (USP)	•		Hydrate
Iron	sulphate	FS		• (EP)	•		Hydrate, anhydrous
	pyrophosphate		• (FCC)		•		
Potassium	chloride	KCL	•	• (EP, USP)	•		
	carbonate	KC	• (E501 (ii))	• (EP)	•		Hydrogencarbonate

### Process

Certified according to ISO 9001. Products from processes certified according to ISO 9001, ISO 22000, GMP, IFS or BRC available on request.

### Purity

Optional: EP, USP, JP, BP, FCC, NF or E number.

### Packaging

Bags, drums, cartons, big bags (packaging according to special requirements available on request).



**Talk to our experts.**

Scan the code for contact details.

## Organic salts and chelates

Metal	Salt/chelate	Grade	Suitability		Dosage forms		Other properties
			Food	Pharma	Powder	Gran.	
<b>Magnesium</b>	ascorbate		•		•		Blend, hydrate fully reacted
	bisglycinate		•		•		Fully reacted, buffered
	citrate	MCi	•	• (EP, USP)	•	•	Hydrate, anhydrous
	gluconate	MGL	•	• (EP, USP)	•		
	glycerophosphate			• (EP)	•	•	
	lactate	ML	• (FCC)	• (EP)	•		Hydrate
	malate		•			•	
	pidolate		•		•		
	stearate	MSt	• (E470b)	• (EP)	•		Palm oil, palm oil free, vegetable
	succinate		•		•		
	taurinate		•		•		
<b>Calcium</b>	acetate	CA	• (E263, FCC)	• (EP)	•		
	ascorbate		• (FCC)	• (USP)	•		
	bisglycinate		•		•		
	citrate	CCi	• (E333 (iii))	• (USP)	•	•	Hydrate, anhydrous
	citrate malate		•		•		
	gluconate	CGl	•	• (EP, USP)	•	•	Hydrate; micronised
	glycerophosphate		•	•	•		
	lactate	CL	• (E327)	• (EP, USP)	•		Hydrate
	malate		•		•		
	pidolate		•		•		
	stearate	CSt	• (E470a)	• (EP, USP)	•		Palm oil, palm oil free, vegetable
<b>Zinc</b>	acetate	ZA	• (E650)	• (USP)	•	•	
	citrate	ZCi	•		•		Hydrate, anhydrous
	bisglycinate		•		•		
	gluconate	ZGL		• (EP, USP)	•	•	
	malate		•		•		
	methionine		•		•		
	picolinate		•		•		
<b>Copper</b>	bisglycinate		•		•		
	citrate	CuCi	•	•	•		Hydrate
	gluconate	CuGL		• (USP)	•		
<b>Chromium</b>	picolinate		•		•		
	chloride	CrCl		• (USP)	•		Hydrate; crystallised
<b>Iron</b>	bisglycinate		•		•		
	fumarate	FF	•	• (EP, USP, API)	•		
<b>Manganese</b>	bisglycinate		•		•		
	gluconate	MnGL	• (FCC)	• (USP)	•		Dried
<b>Potassium</b>	citrate	KCi	• (E332 (ii))	• (EP)	•		Hydrate; fine powder
	gluconate	KGL		• (USP)	•	•	Anhydrous
	malate		•		•		
<b>Sodium</b>	ascorbate		• (E301)			•	
	caprylate		•		•	•	
<b>Selenium</b>	methionine		•		•		

Further organic salts and chelates are available upon request.

We offer customised and application-based fully reacted or buffered chelates. Contact us with details of your project and we will find the most suitable grade to your requirements.

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