



ORGANIC CHELATED MINERALS

(FE, MN, ZN, CU, SE, CR
GLYCINATE)

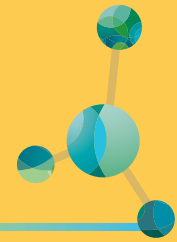


**SALVI CHEMICAL
INDUSTRIES LTD.**

solid foundations, fresh innovations

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WHAT IS CHELATED MINERALS ?

- Chelated minerals are meant to boost absorption. They're bound to a chelating agent, which are typically organic compounds or amino acids that help prevent the minerals from interacting with other compounds.
- Chelation refers to a bonding formed between a metal ion (mineral) and ligand (amino acid). A mineral complex is a mixture of the mineral and organic compound. The biological role of chelated trace minerals is important.
- The primary chelated minerals used in animal feed are the trace elements iron, copper, and zinc.
- Chelates and other complexes are useful in animal nutrition to protect trace minerals during digestion. The goal of forming chelates is to increase the bioavailability of minerals to the animals to support metabolic functions.

THE BENEFITS OF FEEDING CHELATED TRACE MINERALS INCLUDE

Improved fertility and reproductive performance • Reduced somatic cell counts • Increased hoof strength • Improved immune status • Improved performance in growing animals • Reduced mortality and ill health • Soluble Chelated trace minerals are specially formulated for drinking water supplies

THREE STEPS FOR VERIFICATION PROCESS

STEP 01

X-RAY DIFFRACTION (XRD)

X-ray diffraction (XRD) confirms actual structure : X-ray diffraction (XRD) is a nondestructive technique that provides detailed information about the crystallographic structure, chemical composition, and physical properties of materials.

STEP 02

THERMOGRAVIMETRIC ANALYSIS (TGA)

Thermogravimetric Analysis (TGA) confirms purity : In thermogravimetric analysis (TGA), a sample is continually weighed while heating, as an inert gas atmosphere is passed over it. Many solids undergo reactions that evolve gaseous byproducts. In TGA, these gaseous byproducts are removed and changes in the remaining mass of the sample are recorded. Three variations are commonly employed.

STEP 03

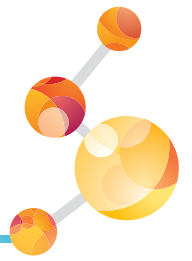
FOURIER TRANSFORM INFRARED SPECTROSCOPY (FT-IR)

Fourier transform infrared Spectroscopy (FT-IR) produce fingerprint for lot-to-lot comparison : Fourier transform infrared spectroscopy is a well-known analytical technique that can give information on the nature and the content of existing functional and structural groups in bitumen.



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SPECIFICATION

PRODUCT NAME	FERROUS (FE)	MANGANESE (MN)	ZINC (ZN)	COPPER (CU)
CONTENT	21%	20%	26%	24%
RESIDUAL MOISTURE	<8%	<3%	<3%	<8%
WATER SOLUBILITY	High Soluble	High Soluble	High Soluble	High Soluble
COLOUR	Brown Particles / Powder	Light Yellow Particles / Powder	Off White Particles / Powder	Blue Green Particles / Powder
PHYSICAL PROPERTIES	Free Flowing, Dust Free & Odourless	Free Flowing, Dust Free & Odourless	Free Flowing, Dust Free & Odourless	Free Flowing, Dust Free & Odourless
SHELF LIFE	24 Months	24 Months	24 Months	24 Months
PACKING	25 KG HDPE Bag	25 KG HDPE Bag	25 KG HDPE Bag	25 KG HDPE Bag

SOME OF THE SCIENTIFICALLY PROVEN BENEFITS OF CHELATED TRACE MINERALS INCLUDE:



Poultry : chelated trace minerals in the poultry diet improves the performance parameters, bird health, and meat-quality traits



Cattle, Sheep and Goat: Improved performance, reproductive efficiency, hoof health and milk production with lower somatic cell counts.

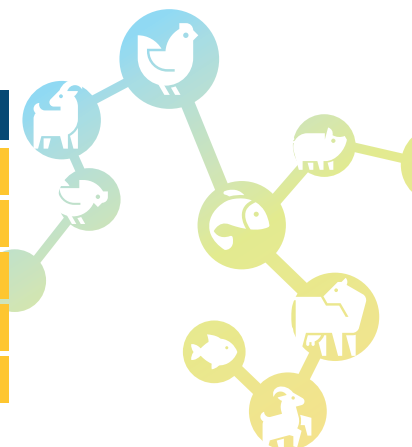


Pigs: Improved sow productivity, growth rates and feed efficiency with reduced mortality

DOSAGE

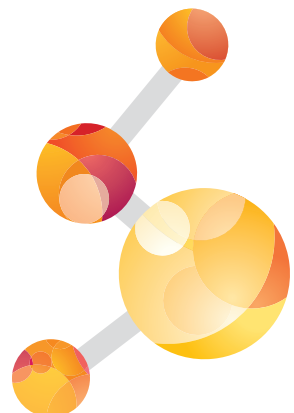
PRODUCT NAME	FERROUS (FE)	MANGANESE (MN)	ZINC (ZN)	COPPER (CU)
POULTRY	125 gm per ton of feed	200 gm per ton of feed	150 gm per ton of feed	100 gm per ton of feed
DAIRY	3 gm per head daily	1 gm per head daily	1.5 gm per head daily	0.5 gm per head daily
SWINE	125-300 gm per ton of feed	200 gm per ton of feed	150 gm per ton of feed	75-100 gm per ton of feed
THROUGH DRINKING WATER	6gm/50L	10gm/50L	7.5gm/50L	5gm/50L

PRODUCT NAME	MIX
POULTRY	Zn40%, Mn40%, Fe15%, Cu5%, I4%, Se0.3%, Cr0.2%
DAIRY	Zn6%, Mn16%, Fe20%, Cu8%, I0.4%, Se0.15%, Cr0.1%
SWINE	Zn50%, Mn12%, Fe20%, Cu8%, I1.0%, Se0.2%, Cr0.18%, Co0.1%
DAIRY	Zn6%, Mn16%, Fe20%, Cu8%, I0.4%, Se0.15%, Cr0.1%
AQUA	Fe, Zn, Mn, Cu, Se, Co, I, Mg,K

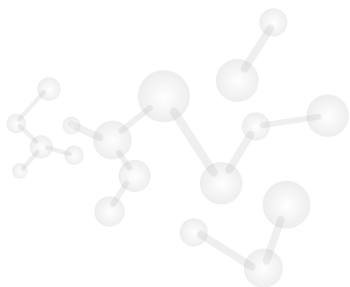


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OUR PRODUCTS APPROVED BY



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