SOIL APPLICATION · COMPREHENSIVE SOIL CONDITIONER

PRILL CaMgS

BUILD THE SOIL.
SUPPORT THE ROOT ZONE.
STRENGTHEN THE CROP.

Natural granular soil conditioning for balanced mineral nutrition, root development and crop resilience.



GREY-RED GRANULES · 2–5 MM

100% NATURAL · 1000 KG · OMRI LISTED

COMPREHENSIVE MINERAL SUPPORT FOR THE SOIL

MNG PRILL CaMgS is a natural granular soil conditioner designed to support soil health and crop productivity across a wide range of soil types and crops. The formulation combines calcium, magnesium, silicon and iron within a mineral-based soil-conditioning system.

Its granular form is designed for professional soil application and supports balanced mineral nutrition, root-zone function and crop development.

Suitable for all soil types and integration into crop-specific soil-fertility programmes.

01 SOIL HEALTH

02 ROOT DEVELOPMENT

03 MINERAL BALANCE

04 MOISTURE SUPPORT

COMPREHENSIVE SOIL CONDITIONER

BALANCED MINERAL NUTRITION FOR THE ROOT ZONE.

Calcium, magnesium, silicon and iron in one natural granular soil-conditioning formulation.

GUARANTEED ANALYSIS

NATURAL COMPOSITION

MAIN ELEMENTS	
Calcium (CaO)	**30.4%**
Magnesium (MgO)	**7.6%**
Silicon (SiO2)	**4.2%**
Iron (Fe2O3)	**1.0%**

TRACE ELEMENTS	
Manganese (Mn)	**100 ppm**
Zinc (Zn)	**17 ppm**
Boron (B)	**9 ppm**
Copper (Cu)	**2 ppm**
Molybdenum (Mo)	**3 ppm**
Chloride (Cl)	**<0.5%**
Sodium (Na2O)	**<0.5%**

30.4% CaO

CALCIUM · MINERAL SOIL SUPPORT

AGRONOMIC BENEFITS

BUILT TO SUPPORT SOIL FUNCTION AND CROP DEVELOPMENT

01 ROOT DEVELOPMENT & NUTRIENT ACCESS

Balanced mineral nutrition supports root development and helps crops access nutrients more effectively.

02 CALCIUM SUPPORT

Calcium contributes to plant structure and root-zone mineral nutrition.

03 MAGNESIUM SUPPORT

Magnesium plays a central role in chlorophyll-related processes and crop metabolism.

04 SILICON SUPPORT

Silicon forms part of the mineral matrix and contributes to plant structural support and resilience.

05 MOISTURE & SOIL-FUNCTION SUPPORT

The granular soil-conditioning system is designed to support soil structure, moisture retention and root-zone performance.



100% NATURAL · 1000 KG

FOR ALL SOIL TYPES. RICH IN SILICA.

FOR PROFESSIONAL AGRICULTURE

A Swiss-developed natural mineral soil-conditioning formulation combining calcium, magnesium, silicon, iron and trace elements in an easy-to-apply granular form.

SWISS-DEVELOPED	100% NATURAL	10-YEAR SHELF LIFE	OMRI LISTED

PROFESSIONAL SOIL APPLICATION

SOIL APPLICATION ONLY

80–180 kg/ha

Suitable for: All soil types
Timing: Flexible application timing
Equipment: Compatible with standard agricultural application equipment.
Selection: Match rate and timing to crop, soil type and analysis, nutrient status, crop demand, irrigation strategy and fertiliser programme.

APPLICATION RATE · kg/ha

80	>	130	>	180
LOWER		MID RANGE		UPPER

CROP-DEPENDENT
The midpoint is a range reference, not a universal recommended rate. Select the final rate according to crop and soil conditions and the approved MNG programme.

GREY-RED GRANULES · 2–5 MM · Professional technical support for crop-specific soil-fertility programmes.

TECHNOLOGY

JAM ACTIVATION & MICRONISATION

NATURAL MINERALS JAM PROCESSING > 65 µm MINERAL FRACTION > GRANULATION > 2–5 MM GRANULES SOIL APPLICATION > ROOT-ZONE INTERACTION

MNG JAM technology uses intensive physical processing and micronisation to reduce mineral raw material to approximately 65 µm before granulation. The processed fraction is formed into practical 2–5 mm granules for professional soil application, combining increased mineral surface area with the handling advantages of a granular product.

PARTICLE SIZE	pH	COLOUR	SPECIFIC WEIGHT	APPEARANCE	MOISTURE
65 µm	8.0–8.5	Grey-red	1.2 kg/L	Granules	≤ 2.0

SOIL HEALTH · ROOT-ZONE FUNCTION · MINERAL BALANCE

BUILD SOIL FUNCTION FROM THE ROOT ZONE UP.

SOIL ASSESSMENT / APPLICATION > **GRANULE DISTRIBUTION** > **ROOT-ZONE MINERAL SUPPLY** > **ROOT DEVELOPMENT / MOISTURE SUPPORT** > **CROP DEVELOPMENT**

CALCIUM · STRUCTURAL MINERAL SUPPORT

Contributes to tissue structure, supports active root and crop development and is a major component of the mineral formulation.

MAGNESIUM · CHLOROPHYLL & METABOLIC SUPPORT

Central component of chlorophyll; supports photosynthesis, enzyme activation and crop metabolism.

SILICON · SOIL & PLANT STRUCTURAL SUPPORT

Contributes to the mineral soil matrix, supports plant structural integrity and complements calcium and magnesium nutrition.

IRON · METABOLIC SUPPORT

Contributes to enzyme systems and chlorophyll-related metabolism; supports active crop development.

SUPPORT THE ROOT-ZONE ENVIRONMENT

Designed to contribute to improved soil conditions, moisture retention and root-zone function.

FERTILISER-EFFICIENCY SUPPORT

Supports up to 30% reduction in additional mineral fertiliser input*, subject to crop demand, soil analysis, nutrient status and the complete fertiliser programme.

DESIGNED FOR ALL SOIL TYPES

SANDY SOILS · LOAM SOILS · CLAY SOILS · MIXED / VARIABLE SOILS

APPLICATION BEST PRACTICE

1. **ASSESS THE SOIL** · Review soil type, pH, nutrients, moisture and salinity where relevant.
2. **ASSESS THE CROP** · Review crop demand and production target.
3. **SELECT THE RATE** · Use 80–180 kg/ha according to crop requirement.
4. **CALIBRATE EQUIPMENT** · Ensure accurate, uniform granule distribution.
5. **APPLY TO SOIL** · Use suitable agricultural soil-application equipment.
6. **POSITION FOR ROOT ACCESS** · Where appropriate, distribute or incorporate within the active root-zone layer.
7. **INTEGRATE NUTRIENTS** · Use PRILL CaMgS within a crop-specific fertility strategy.
8. **MONITOR RESPONSE** · Assess roots, crop vigour, soil condition, nutrient response, yield and quality to refine future programmes.

TECHNICAL SUPPORT

BUILD THE RIGHT SOIL-CONDITIONING PROGRAMME FOR YOUR CROP.

Match application rate, timing and placement to soil type, crop demand, nutrient status and production objective. Integrate PRILL CaMgS into the complete MNG Soil · Water · Plant programme.

Contact MNG Technical Support for a crop-specific PRILL CaMgS application programme.

DAR — Manaseer Trade House L.L.C.
P.O. Box 141414 · Amman 11814, Jordan
info@manaseer-tradehouse.com

MNG
NATURE · SCIENCE · INNOVATION