

Manganese 27

Granular Manganese 27%



Advanced Micronutrient Products

AMP Manganese 27 is a high-analysis, water-soluble, uniformly granulated manganese fertilizer, specifically designed to assist in plant growth, and maximizing yield.

GUARANTEED ANALYSIS

Manganese.....	27.0%
Sulfur.....	6.0%
Water Soluble Mn.....	40.0%
SGN.....	.260
Uniformity Index.....	50.0%
Color.....	Dark Gray
Bulk Density75lbs/ft ³

MANGANESE FUNCTIONS IN PLANT

- Essential for chlorophyll formation
- Can accelerate germination and maturity
- Has a key role in nitrogen assimilation/reduction
- Primarily responsible for enzyme activation
- Essential in protein synthesis
- Can increase availability of phosphates and calcium

MANGANESE CAN BE DEFICIENT IN

- High organic matter soils, compacted soils
- Sandier textured soils
- High soil pH
- Excessive phosphorus, calcium, zinc, copper or iron levels

SYMPTOMS

- Low mobility, newer leaves can be affected first
- Interveinal chlorosis on broadleaf crops
- Leaves and leaf tips show gray to white specks
- Stunted, wilted leaves on grasses



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Use AMP Manganese 27 for fall and pre-plant manganese deficiency prevention. AMP Manganese 27 is the product of choice for broadcast and band applications in a wide range of conditions.

MANGANESE 27

- **Water-soluble manganese at 40%.** Manganese 27 exceeds industry water-solubility standards.
- **Crop essential sulfur at 6%.** All the sulfur in Manganese 27 is in the immediately available form of sulfate sulfur.

Comparison

Product	Analysis	Product Rate Per Acre	Actual Nutrient per Acre			Water-Solubility
			Manganese	Sulfur	Nitrogen	
Manganese 27	27.0% Mn	19#	5#	1.1#	.2#	>40.0%
Other	40.0% Mn	13#	5#	.8#	.1#	<5.0%

CRITICAL LEVELS IN PLANT AND SOIL TESTS

Plant Tissue: parts per million (ppm)

Critical levels at about 15-150 ppm

Corn:	20-150 ppm
Beans:	20-150 ppm
Wheat:	30-150 ppm

Soil test: parts per million (ppm), 0-6", Mehlich III Extraction

Deficient:	<1.0 ppm
Marginal:	1.0-4.0 ppm
Sufficient:	>4.0 ppm

Advanced Micronutrient Products are treated with a superior dust coating and are uniform in size for excellent blending properties. We combine the agronomic water-solubility of sulfates with the economics of oxide materials. Advanced Micronutrient Products uses the latest technology in product manufacture. Bags are color coded for easy identification. Available in bulk, one-ton super sacks or 50# bags. Bagged product comes on non-returnable pallets with protective cardboard inserts and shrink-wrap. All AMP micronutrients have been environmentally screened for safe use.