



Suspension Grade Magnesium Oxide For Plant Food

Fertilizer Formulation Guide

To ensure blending performance when using CropMag® 200 in conjunction with orthophosphates for suspension formulations, the following guidelines are recommended:

1. On a grade basis, keep the phosphate level at or below 12% P_2O_5 . Keep the magnesium level at or below 2.5% Mg.

Example: A 16-8-8 2.5% Mg will blend satisfactorily (the phosphate and the magnesium levels are within the recommended guideline above).

Example: A 5-15-20 3.1% Mg at 400 lb/acre should be reduced to 4-12-16 2.5% Mg and applied at 500 lb/acre to meet the above guideline.

2. The total equivalent water should be at least 35% of the mix, or 700 lb/ton. (Equivalent water is equal to actual water plus 1/3 of the 10-30-0 plus 1/2 the nitrogen solution).

Example: 12-9-12 2.5% Mg

Order of Addition (lb/ton)	Equivalent Water
293 Water (free)	293
87 CropMag 200	
600 10-30-0	200
35 Clay	
600 Nitrogen Solution (30%)	300
<u>385</u> Potash	<u> </u>
2000	793 = 39.5%

3. CropMag 200 should be dispersed in free water when possible. If there is not enough free water in the formulation, CropMag 200 can be added after the nitrogen solution, but before the potash (see order of addition above).

The addition of other fertilizer materials, such as calcium, zinc, manganese, and especially ammonium sulfate and polyphosphates, may require that trial “bucket batches” be mixed to determine acceptable levels of viscosity.

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