




Competitive Product Analysis:

Ammonium sulfate (AMS)

PRODUCT COMPARISON

		AMS
Calcium:	21%	0%
Sulfate-sulfur:	17%	24%
Solubility [†] :	Ideal	Rapid
Acidification:	None	Acidifies Soil

[†] Solubility of SO4 is 0.24 g/100 ml H₂O; AMS is 76 g/100 ml H₂O, a difference of 316x.

Key Differences

- The release of sulfur from SO₄TM perfectly matches plant needs and supplies sulfur throughout the growing season.
- The release of sulfur from AMS is very rapid, leaving it susceptible to leaching as the season progresses.
- Due to its ideal solubility, SO₄ can be applied in the fall, pre-plant in spring, or topdressed after emergence.
- SO₄ will not acidify the soil; AMS acidifies the soil due to nitrification, the conversion of ammonium to nitrate. Free hydrogen is left behind in this process, acidifying the soil. A 25 unit sulfur application from AMS would require 130 lbs/A of 98GTM to offset this acidity.
- SO₄ contains calcium, replacing crop uptake and helping maintain soil structure.
- AMS is subject to volatile pricing in the fertilizer market while SO₄ remains steady.



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