

PLANT NUTRIENTS

AdvanSix Sulf-N® Ammonium Sulfate

Canola Needs Available Sulfur

Canola needs more sulfur than almost any other commercially grown crop in North America. Even a mild sulfur deficiency can result in drastic yield losses. Applying nitrogen fertilizer to sulfur-deficient plants can actually depress yields, as demonstrated in the following table:

Canola Response to Sulfur

Manitoba, Canada

Fertilizer Applied	Yield, lbs/acre
Check (residual fertility)	900
NPK	250
PK + 20 lbs S/Acre	1250
NPK + 20 lbs S/Acre	1800

Source: Canadian Canola Production Guide.

Critical growth stages. Canola undergoes an intense period of sulfur usage between the bolting and flowering stages of growth. Without enough available sulfur during this three- to four- week period, canola plants cannot produce any seed yield.

Sulfate versus elemental S. Canola needs sulfate sulfur during this critical growth period. Sulfate sulfur is the only form that crop roots can absorb. Elemental sulfur is not available to crop roots until it undergoes a conversion to sulfate. This process can take up to several months. The following table demonstrates the yield advantages of fertilizing with sulfate sulfur.

Conventional Tillage Canola Yields

Rock Lake, North Dakota – 1996

	Sulfate S (20 lbs/acre)*	Elemental S (lbs/acre)**
	Lbs/Acre	
Side Slopes	1980	1290
Toe Slopes	1860	1470
Hilltops	1810	1260
Average	1880	1340

* Sulfur supplied as ammonium sulfate (21-0-0-24S).

** Sulfur supplied as elemental sulfur formulated with bentonite clay.

Source: North Dakota State University.

Sulf-N® ammonium sulfate (21-0-0-24S) supplies all of its sulfur in the readily available sulfate form. For best results, make preplant applications of sulfate sulfur to spring canola and spring topdress applications of sulfate sulfur to winter canola.

Contact AdvanSix

To learn more about the benefits of Sulf-N® Ammonium Sulfate, visit AdvanSix.com or SulfN.com or call: **1-844-890-8949** (toll free, U.S./Can.) **+1-973-526-1800** (international)

AdvanSix

300 Kimball Drive, Suite 101
Parsippany, NJ 07054

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