

- Specification Sheet -

THIO-S-AM

THIO-S-AM is a clear liquid Nitrogen and Sulfur fertilizer compounded by Ammonium Thiosulphate which increases the crop yields while affecting the Nitrogen-Sulphur balance in the soil and increasing the content of Sulfur in soils poor in Sulfur. Furthermore **Thio-S-Am** helps plants to absorb and make better use of the rest nutrient elements such as phosphorus, zinc, manganese, copper and ferrum.

Thio-S-Am is being degraded by the soil micro organisms releasing Nitrogen and Sulfur. The released Sulfur is in the form of sulphate ions (SO_4) and also in the form of elementary Sulfur (S). Sulphate ions are immediately available by the plants and at the same time they reduce the soil pH in alkaline soils and break down the bicarbonate salts allowing Sodium to leach from the irrigation water. The elementary Sulfur is being oxidised gradually providing plants sulphur for a longer period of time than other sulphate fertilizers.

PROPERTIES AND USES:

- Excellent source of Nitrogen and Sulphur.
- Reduces the soil pH.
- Reduces the levels of Sodium and bicarbonate salts in the soil.
- Increases soil micronutrient availability.
- Improves water and air penetration in the soil.
- Eliminates the nitrification of the soil's nitrogen.
- Acts as an inhibitor of nitrification and urease. It reduces nitrogen losses by leaching and ammonia by evaporation especially when it is mixed with other UAN fertilizers.

APPLICATION:

THIO-S- Am can be used before planting or sowing as a starter fertilizer, also during growth by fertigation according to the type of the crop and the handling of the grower.

Application Rate: Generally it is applied at the following application rate.

Soil Application: 10-100 l/ha diluted at a rate 1:50-100.

FERTIGATION

- *Drip irrigation:* 10-60 l/ha.
- *Sprinkler irrigation:* 10-50 l/ha
- *Flood and Furrow irrigation:* 50-200 l/ha.

Foliar application: 50-150 l/ha.

STANDARD ANALYSIS

	(w/w)	(w/v)
Nitrogen (N)	11.60 %	15.43 %
Phosphorus (P_2O_5)	0.00 %	0.00 %

Potassium (K ₂ O)	0.00 %	0.00 %
Sulphur	26.00 %	34.58 %

PHYSICAL PROPERTIES:

Appearance: Colourless liquid with a slight odour of sulphur
Density: 1.33 g/cm³
Solubility: 100% water soluble
pH: 7.0-7.8