

TECHNICAL DATA SHEET



STERCORAT

Stercosul®

Synonyms: Ammonium Thiosulphate Solution
Diammonium Thiosulfate Solution
ATS

Formula: $(\text{NH}_4)_2\text{S}_2\text{O}_3$

MACRONUTRIENTS COMPOSITION

Total Nitrogen (N):	12.0 wt.%
Amoniacal Nitrogen (N-NH ₄ ⁺):	12.0 wt.%
Total Sulphur (as S):	26.0 wt.%
Total Sulphur (as SO ₃ ²⁻):	64.9 wt.%

MATERIAL COMPOSITION

Ammonium Thiosulphate:	50.0 - 57.5 wt.%
Sulphites (SO ₃ ²⁻):	1.5 - 5.0 wt.%
Sulphate (SO ₄ ²⁻):	0.0 - 7.5 wt.%
Nonpolar Hydrocarbons:	max. 5.0 mg/l without visible hydrocarbon phase
Chloride (Cl):	none
Heavy Metals:	less than legal limit

PHYSICAL AND CHEMICAL PROPERTIES

Color:	colorless - light yellow
Appearance:	clear liquid without visible impurities
Odors:	may have a slight odor of ammonia or sulphur dioxide
Hydrocarbons odors:	free of hydrocarbons odors
Boiling Point ⁽¹⁾ :	110.0°C
Solubility in water:	complete
Specific Gravity ⁽¹⁾ :	1.325 - 1.375 (water = 1)
pH:	6.5 - 8.0
Explosiveness:	Non-Explosive
Crystallization point ⁽¹⁾ :	from -5°C to +5°C
Freezing point ⁽¹⁾ :	from -35°C to -25°C
Salt out temperature ^{(1),(2)} :	from +10°C to +20°C

(1) depending upon concentration

(2) the temperature at which the formed crystals melt back to a liquid

STORAGE AND HANDLING

STERCOSUL® is to be stored in closed, intact original containers in dry places with sufficient ventilation protected against direct weather conditions and sunlight as well as from the heat. The product must be stored away from sources of radiating heat, ignition, sparking, open sparking, open fire and strong oxidation materials, acids and bases. Contact with acids will cause the release of sulfur dioxide or hydrogen sulfide and can be a severe respiratory hazard. Contact with alkalis will cause the release of ammonia and can be a severe respiratory hazard. Strong oxidizers can cause explosions or the release of ammonia, hydrogen sulfide or sulfur oxides. The solution of ammonium thiosulphate is not compatible with materials such as gold, copper, zinc, tin or their alloys (i.e. bronze, brass, galvanized metals etc.) and some types of mild steel. These materials may not be used at the construction of the systems of product handling nor as a material for storage containers. Store out of reach of children and food, beverages and fodder plants.

AGRICULTURAL USES

Stercosul® is a high analysis sulphur fertilizer ideal for S crop nutrition, it may be applied alone or blended with fluid formulations to increase the S and N content. It can be used for the treatment and reclamation of saline and alkalid soils. The addition of Stercosul® to urea-ammonium nitrate solutions increases the efficiency of N applied to slow gaseous losses of ammonia and leaching of nitrates.

PACKAGING

- rail wagon
- road tanker

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