

# Sulfur Coated Urea

## *Controlled Release Nitrogen & Sulfur Fertilizer: 39-0-0-12S*

SCU increases Nitrogen use efficiency by reducing losses to the environment through leaching, volatility, and denitrification.

SCU is manufactured by coating a Urea granule with a thin layer of molten elemental sulfur and a protective wax sealant.

SCU provides a slow predictable release of Nitrogen that is released into the soil through the following in the presence of moisture:

- Bio oxidation of the sulfur coating
- Diffusion through the somewhat porous coating

A recent Soil Incubation Study\* found:

- A substantial reduction in ammonia volatilization rates compared to both straight Urea and NBPT treated Urea, in all soil temperatures.
- Average release time of N from SCU:
  - Soil temp 40°F = 60 + Days
  - Soil temp 60°F = 45-60 Days
  - Soil temp 80°F = 30-45 Days

\*Study concluded July 1st 2014 at the OSU Hermiston Ag Research Center by Sarah Del Moro & Don Horneck.



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