

# Calculating Salt Out

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This is an estimated temperature at which a fertilizer or a fertilizer mixture begins to form crystals and salt out from suspension. It is dependent on many factors, including the Products mixed, the purity of the Products mixed, temperature, water content, etc.

The math the program uses comes directly from the TVA blend models on liquid fertilizer blends. These models were developed from laboratory studies using highly pure products. The users' own experiences in working with the existing products will assist in refining expectations for the results of these models.

The screenshot shows the 'Advanced Setup' dialog box with the 'Salt Out Parameters' section active. The 'System' dropdown menu is open, displaying the following options: (None), No Poly UAN, 55% Poly UAN, 70% Poly UAN, No Poly Urea, and 55% Poly Urea. The 'Formulate to a given Salt Out Temp' checkbox is checked. The 'Maximum Salt Out Temperature' is set to 35, 'Suspension Blend Target %' is 999, 'P% Guarantee Limit (999 = Off)' is 0, '% Chlorine Warning (0 = Off)' is 0, '% Water to Preload' is 0, and '% of Base to Preload' is 0. An 'OK' button is located at the bottom right of the dialog.

- **No Poly UAN** – This is for solutions containing Urea Ammonium Nitrate (UAN) solution and no ammonium polyphosphate.
- **55% Poly UAN** – This is for solutions using standard quality polyphosphate and UAN solution as their primary ingredients.
- **70% Poly UAN** – This is for solutions using higher quality polyphosphate with UAN solution as their primary ingredients.
- **No Poly Urea** – This is for solutions using Urea solutions and no ammonium polyphosphate solution.
- **55% Poly Urea** – This is for solutions using standard quality polyphosphate and Urea solution as their primary ingredients.