



NIRSPEC UAN ANALYZER

ON-LINE ANALYSIS OF UREA AMMONIUM NITRATE COMPOSITION

INCLUDING BIURET

Why to use SPRANA Process Analytical Technology (PAT) in Urea Ammonium Nitrate (UAN) production process line?

What industry needs does SPRANA Process Analytical Technology meet?

Reducing UAN product variability will subsequently reduce the risk of releasing off-spec product into the marketplace. In addition, there are the benefits of cycle time reduction and increased process efficiency (e.g. increased yield, throughput and equipment utilization) that are achieved by eliminating the delays associated with off-line assays.

Speed of measurement, real time production process adjustment

Measurement data is collected “real” time, so operator has opportunity to adjust the production process during the UAN mixing phase and optimize the production yield.

Improving measurement repeatability and accuracy

SPRANA RnD department used a wide range datasets with different temperatures and developed very stable dynamic temperature compensation model for range from 25 °C to 110 °C. which allowed to achieve high repeatability and accuracy.

Our “NIRSpec” UAN analyzer achieves up to 0.1% wt. in this temperature range.