



FLEXIBLE NITRATION AND CRYSTALLIZATION PILOT PLANT

LABORATORY INFORMATION FACT SHEET

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The Flexible Nitration and Crystallization Pilot Plant is a remotely operated chemical synthesis and crystallization facility designed to scale-up energetic and related materials to bridge the gap between lab-scale and full-scale production.

TECHNOLOGY/FACILITY DESCRIPTION:

Producibility studies are performed and optimized manufacturing processes are developed for transition to industry.









EQUIPMENT AND EXPERTISE AVAILABLE:

- Nitration Pilot Line
- 20 gallon glass-lined reactor
- 30 gallon glass-lined
- 60 liter glass-lined Nutsche filter
- Crystallization Pilot Line
- 50 gallon stainless steel dissolver
- 50 gallon stainless steel crystallizer
- 50 gallon stainless steel filter
- Both lines are serviced with vacuum systems, compressed air, nitrogen, heating and cooling systems for vessels, waste tanks and an air scrubber
- Operation of the facility is remote and through a PC interface

