

Providing Creative Solutions



Custom Manufacturing Solutions



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PLANT REACTION EQUIPMENT

8 stainless steel reactors (2,700 - 12,400 gal.)

- Pressure rated full vacuum to 150 psig
- Utilities including steam, hot oil, chiller and cooling tower water
- Multiple agitated feed tanks (e.g. monomers, initiators)
- Solids addition
- Distillation capabilities
- Centrifuge and filtration capabilities

2 glass-lined reactors (4,000 gal. each)

- Pressure rated full vacuum to 100 psig
- Utilities - steam, external recirculation cooling heater exchanger, tempered water
- Overhead condenser

4 stainless steel blend tanks (5,000 - 12,500 gal.)

- Utilities include steam, cooling tower water, and tempered water
- Solids addition
- Variable speed agitation

DISTILLATION CAPABILITIES

- High temp batch fractionation
- Hot oil heating
- Deep vacuum
- Monomer and reactive distillations

DISTILLATION EQUIPMENT

3 batch distillation systems

- Stainless steel construction
- Pot sizes of 4,000, 6,500 and 9,500 gal.
- Column diameters of 2 - 3 ft.
- Structured packing of 15 - 30 ft.
- 40 theoretical stages
- Pressures from 10mm Hg to atmospheric
- Hot oil heating

Lectrodryer AXR 6500

- Engineered to remove water and impurities from solvents for recycled solvents

BENEFITS

- Add capacity to meet demand spikes
- Defer capital expenditures with bridge strategy
- Process improvement
- Asset light manufacturing option
- Safe product handling with a reputable, customer focused partner



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SUSTAINABLE ELECTRONIC GRADE SOLVENTS

Ultra-Pure E-Grade Solvents

Transform your spent or expired material into premium electronic-grade solvents designed to meet the stringent requirements of electronic manufacturing. Through recycling and cleanup, Hydrite restores solvent into ultra-pure product rivaling virgin material that helps minimize contamination risk and enhance product and process performance and quality.

OUR SERVICES

Solvent Purification

Experience unmatched purity with our solvent purification services. We employ state-of-the-art techniques to remove impurities and contaminants, ensuring that your solvents meet the highest industry standards. Trust us to deliver solvents of exceptional quality.

Reclaiming Solvents

Promoting sustainability is at the core of our values. Our solvent reclaiming services allow you to minimize waste and reduce environmental impact. Partner with us to reclaim and reuse solvents, contributing to a greener and more sustainable future.

OUR SOLUTIONS: RESTORING STRENGTH AND QUALITY

1. Revitalizing Solvent Strength:

Our solvent purification solutions are designed to revitalize and restore the strength of degraded solvents. By undergoing our purification process, solvents regain quality, ensuring optimal performance in your electronic manufacturing processes.

2. Extended Lifespan:

Solvents that have undergone degradation during shipment often face a shortened lifespan. Our purification solutions extend the shelf life of solvents, providing reliability to your supply chain.

3. Cost Efficiency:

Instead of discarding degraded solvents and incurring additional procurement costs, our purification services offer a cost-effective alternative. Save on expenses by rejuvenating and maximizing the use of your existing solvent inventory.

4. Consistent Product Quality:

Maintaining consistent product quality is crucial in electronics manufacturing. Our purification process ensures that the solvents consistently meet the required standards, reducing variability in your manufacturing outputs.

5. Environmental Sustainability:

Opting for solvent upgrading contributes to environmental sustainability. By minimizing the need for new solvent procurement, you actively participate in reducing waste and promoting a more eco-friendly approach to manufacturing.

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Whether its organic toll reactions, or separation and distillation of difficult-to-process organic products, Hydrite's capabilities and expertise will give you a superior result. We have the ability to process a wide variety of special materials. Our commitment includes using the latest technology to provide a valuable service to you and the environment, and our scheduling and processing flexibility will meet your strict processes and procedures.

At Hydrite's Cottage Grove, Wisconsin facility, we operate a combination of stainless steel and glass reactors, as well as distillation columns. We can operate our packed columns at high vacuum levels, lowering process temperatures so there is less chance of degradation. Our storage tanks are engineered to ensure complete drainage and product batches are moved directly from equipment to clean storage tanks, eliminating risk of contamination. Our facility capabilities include:

> **Reactive organic chemistry**

- Solvent and water-based polymerization
- Polyester chemistry
- Transesterification & Esterification
- Specialty monomers
- Alkylation
- Amidation
- Acetylation
- Alkoxylation

> **Epichlorohydrin reactions (Epoxidations)**

> **Blending (Flammable, Non-Flammable)**

> **Solvent recycling**

> **ISO 9001:2015 Standard**

If you're looking for a comprehensive chemical partner with your profitability in mind, call 262-792-1450 and learn how we will help you simplify your chemical program, streamline logistics and reduce your operating costs.



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