

Hydrite Technology Group Industrial & Contract Manufacturing

Our staff of 12 scientists and chemists have 145+ years of combined industry experience with PhD, MS, and BS in chemistry, biochemistry, biomolecular engineering, analytical chemistry, and inorganic chemistry.

Combined Areas of Expertise: Product Development, Technical Services, Field Technical Support, Analytical Characterization, Competitive Analysis, Benchmarking, Root Cause Analysis, Analytical Method Development, Statistical Analysis and Design of Experiments.

Areas of Expertise

Formulating expertise and technical services in:

- Electropolishing/Metal Finishing
- Cleaning and Sanitizers
- Wastewater
- Foam Control
- Peracetic Acid

Contract Manufacturing:

- Project Management
- Method Transfer

Industrial Capabilities

1. Product Recommendation: Through chemical analysis and product performance testing, our goal is to specify the best product for your application.

2. Stability Studies: Evaluation of the quality of a product with time under the influence of environmental factors (temperature, humidity, light).

3. Impurity/Contamination Identification & Quantitation: Comparabilities studies and corrosion analysis including the evaluation of chemical compatibility and effects of corrosion on membranes, gaskets, bearings, metal alloys, etc.

Contract Manufacturing Capabilities:

1. Project Management: Our team ensures quality, verifying customer requirements are met, and providing technical support throughout the onboarding of the new product.

2. Formula Scale Up: With 25 and 55 gal blending capabilities, our staff can assist in smaller scale-ups before plant trials.

3. Method Development or Transfer: Our chemists work with you on determining the best method for evaluating your product. We have a wide variety of testing options available including auto-titration, HPLC, viscosity, pH, and many others. Through round robin testing, gage R&R, or your validation we make sure product testing is accurate.



Chemical Assay and Quantitation

- HPLC (High Performance Liquid Chromatography)
- GC-FID (Gas Chromatography-Flame Ionization Detector)
- Auto-titration
- GC/MS
- FTIR

Chemical Assay and Quantitation Performance and Property Analysis

- Particle Size & Distribution
- Thermal: Evaluation of thermal properties to assess material performance & stability, pourability, degradation, solidification, glass transition temperatures
- Compatibilities: Surface tension, wettability, substrate compatibility
- Other properties: pH, conductivity, SG/density
- Viscosity & Rheology: Viscosity, flow, visco-elastic properties, tribology

Chemical Identification and Characterization

- Impurities and Contaminants
- General Chemistries and Functional Groups
- Organic and Inorganic Chemistries
- Metal Analysis
- Molecular Weight and Distribution
- Liquid and Solid Analysis

Additional Capabilities

- Pilot Batching and Scale-up
- Benchmarking
- Competitive Analysis



Providing Creative Solutions

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