

Hydrite Chemical Co. Technology Group



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.

Paints & Coatings Industry Capabilities

Paints & Coatings Industry Areas of Expertise

Formulating Expertise and Technical Services in:

- Architectural Paints and Coatings
- Industrial and Household Paints and Coatings
- Packaging
- Graphic Arts
- Adhesives
- Wood Coatings

Density: Measures the effectiveness of a defoamer on entrained air in a system

Tri-Gloss Measurement: Compatibility of a defoamer in a gloss or sheen paints and coating application (flat, eggshell, semi-gloss, gloss)

High Shear Mixing: Determine the efficiency and persistence of a defoamer in surfactant systems under high shear or stress

Circulatory Foam Test: Simulate many industrial application conditions to determine the effectiveness of the defoamer in surfactant systems under a circulatory application

Drawdown Assessment: Evaluate surface defects and bubble breaking ability in finished paint systems (i.e. craters, orange peel, fisheyes, etc.)

D/Emulsification: Formulation expertise to optimize emulsification or demulsification needs

Shear Properties: Evaluation of viscosity and shear conditions to understand spray, flow, brushing, and sag properties

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

Shake Test: Fast and simplistic way to measure generated foam in a non-pigmented system



HYDRITE CHEMICAL CO.

FOR MORE INFORMATION:

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TRUSTED, TECHNICAL, AND DEPENDABLE

The Hydrite Advantage:

Technical Expertise | Manufacturing Capabilities and Flexibility
Quality Products | Innovative Solutions | Local Logistics

Performance and Property Analysis

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

Chemical Identification and Characterization

- Chemical Analysis and Assay
- Impurities and Contaminants
- General Chemistries and Functional Groups
- Organic and Inorganic Chemistries
- Molecular Weight and Distribution
- Liquid and Solid analysis
- Bulk and Surface Analysis

Additional Capabilities

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