



## Emulsification & Blending Services

We provide speciality emulsification and blending services through our versatile capabilities. Perennial Formulations employs and contracts Ph.D. level scientists to perform high level operations including:

- **Ready-To-Use Chemical Mixing** – Need someone to mix? We can handle your mixing either making stable emulsions with temperatures up to 150° C, from 50 gal to 3000 gal per vessel. Always scalable to fit any needs. Lead times determined to your schedule.
- **Emulsifier & Chemical Blending** – Mixing incompatible liquids – oils and other desirable components with high to low shear.
- **Dispersions** – Suspending solids in a specific liquid to bring about stabilized form, through high energy homogenization, high shear agitation, and milling to low energy methods through phase inversion (PIT or PIC).
- **Emulsions** – Similar to dispersions – includes a dispersion (solid and liquid) and water, with high or low shear mixing, including challenging emulsions comprised of silicon, oils, polar fluids and including nanoparticles such as silica or titanium dioxide
- **Particle Size Reduction** – We can yield higher-performance products with increased stability using HLD-NAC and other modern approaches including particle size analyses from sub-micron levels using detailed methodology.

Our in-house analytical capabilities extend across a broad range of modern approaches, including capillary gas chromatography (GC), high performance liquid chromatography (HPLC), spectrophotometry, and other solvent profiling means.

**Get A Free Quote - (888) 917-6188**