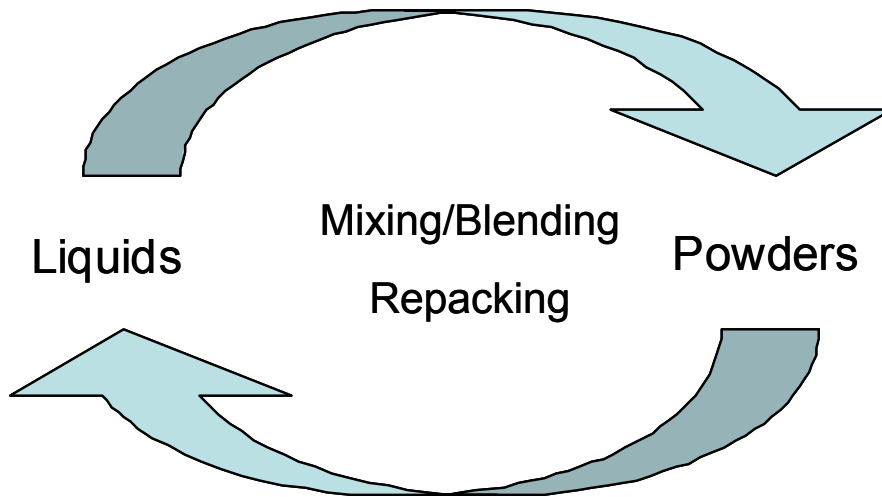




JARCHEM INDUSTRIES, INC.
An ISO 9001:2008 Company

Your source for
Custom
DRY and LIQUID
Processing Solutions

Specialty Drying Expertise



Non-Toxic/Non-Flammable
Food Grade
Certified Organic
Kosher
Cosmetic
Oleochemicals

All work is Confidential

Exothermic and Endothermic
Liquification

Custom Formulations

JARCHEM INDUSTRIES, INC. – YOUR SOURCE FOR CUSTOM PROCESSING.

Use Jarchem Industries' years of process experience and resources to help solve your liquid and dry blending/mixing, drying, and repackaging problems.

We have expertise with:

Long Chain Fatty and Waxy Alcohols and Acids
Food Grade and Kosher Products
Only non-hazardous, non-flammable materials

Deicing Compounds
Custom Proprietary Blends
Cosmetic Pre-Blends

• **Liquid Processing - Repackaging**

Bulk to Package - Our semi-automatic drum filling line can quickly fill totes, drums and pails. Dedicated lines and pumps can be set up for your product. Jarchem fills from both tank trucks and isotainers directly to the finished product container.



Liquid materials (ranging from food grade glycerin to technical sodium acetate solution to long chain alcohols) may be packaged in steel or poly drums or pails or in steel or poly liquid tote bins. Typical drum/pail sizes are 5-55 gallons at weights dependent on the material density. Typical tote sizes are 150-350 gallons dependent on the material density. Liquid materials may also be directly loaded to tank trucks for bulk deliveries. In many cases, Jarchem can provide drums, pails or totes or work with customer-supplied packaging.

• **Liquid Processing - Mixing**



For liquid blending, Jarchem has a variety of mixing tanks from 200 to 6,500 gallons. Jarchem can package your liquid product in drums, totes or go directly to tank trucks or isotainers.

We currently mix non-toxic, non-flammable liquids from technical to food grade. Jarchem can blend liquid materials in pilot units of approximately 200 and 1000 gallons up to a production unit of 6500 gallons. All contact surfaces are stainless steel. All of these units are equipped with mechanical agitation and some are available with jackets, coils or an external heat exchanger in a circulation loop for heating and cooling. In addition to blending, some of these units are available for running reactions at atmospheric pressure, such as acid-base neutralizations.

Dry Material Processing – Drying and Blending



Jarchem has a variety of blender/dryers ranging from a 10 cubic foot pilot unit to production units of 150 to 600 cubic feet. These may be used to dry your product by removing water (or other non-hazardous solvents) from your product.

The same units are used as effective blenders for dry products. Jarchem can also provide pilot plant services in this equipment to help you scale up prior to your own equipment purchase.

Dryer/blenders are equipped with jackets for heating or cooling. Depending on the unit, steam or hot water may be used for heating. Tower water is available for cooling. The units are also equipped with vacuum systems with condensers and vacuum receivers. All contact surfaces are stainless steel. Material may be discharged directly from the dryer/blenders units into drums. Some are equipped with a mechanical or pneumatic conveyor system that can move material into a sifter and then to a bagger or to tote bags.

Dry Material Processing – Repackaging

Jarchem can package your solid product in drums, bags and bulk bags. We can currently dry or blend non-toxic, non-flammable powders and granules from technical to food grade.



- Solid materials may be packaged in valve pack bags (multi-layer paper with poly liner, all poly), fiber drums (with or without poly liner), poly drums or tote bags. Typical packaging weights for bags are 25-55 pounds. Typical packaging weights for drums are 50-300 pounds. Typical packaging weights for tote bags are 500-2500 pounds. In many cases, Jarchem can provide the packaging or work with customer-supplied packaging.

Powder Processing – Liquification

Jarchem can create high solids solutions from powders, granules, waxes, and butters.

Any necessary ancillary equipment such as pumps, filters, sifters, etc. can be provided.

