



*“Quality Is Our Standard...  
Customer Service Is Our Specialty”*



## **Sulfuric Acid Solution**

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## Sulfuric Acid Solution

### Technical Data



### Resin:

Concentration %	Temperature <sup>1</sup>	Resin <sup>2</sup>
0.5 - 70	≤ 150° F.	Derakane 411
71 - 80	≤ 100° F.	Derakane 411

1. Higher temperatures may be allowed, but the service life of the tank will be reduced, and a different resin may be required. See Derakane's latest Chemical Resistance Guide.
2. For concentrations below 70% with temperatures below 150° F., isophthalic polyester resin may be used in the structural layers if spills are not a concern and to reduce cost.

CAUTION! Solutions above 50% may discolor the fiberglass tank. A fiberglass tank should NEVER be used to store concentrations above 80%.

### Veil:

Single C-Glass

### Catalyst:

Co/MEKP (Cobalt Octoate / Methyl Ethyl Ketone Peroxide)

### Cure:

Hot air post cure after assembly for four hours @ 180° F.

### Tank Exterior:

If the tank is to be located outdoors:

- Each tank has U.V. inhibitor in the exterior resin layer.
- Gel coat may be added as an option.

## Fittings:

Belding Tank uses only Integral (neck and flange face molded together) flanged nozzles.

Bolting Material: T-316 S.S. Standard (Hastelloy-C Optional)

Gasket Material: EPDM Standard (Viton Optional)

## Venting:

Unless otherwise noted, all tanks are designed for atmospheric pressure only.

Belding Tank recommends the vent be equal to or larger than the largest inlet or outlet fitting.

## Plumbing to the tank:

Use of flexible connections resistant to sulfuric acid –

- Allows for lateral and vertical expansion and contraction of the tank
- Reduces pump and piping vibration stress on the tank

## Sulfuric Acid Guidelines

**An aggressive acid that requires special storage consideration.**

Fiberglass tanks provide a cost-effective method for storing one of the most important industrial chemicals. Sulfuric Acid is used in the production of fertilizers, the manufacture of chemicals, petroleum refining, metal processing and the production of lead-acid storage batteries to name a few.

Due to the aggressive nature of sulfuric acid, a fiberglass tank should be manufactured with high quality resins and acid resistant glass. However, fiberglass is still limited to less than 80 percent concentrations.

Personal protective equipment should always be worn when handling or operating near sulfuric acid. Even at low concentrations, chemical burns are possible.

NOTE: Flexible Connections should be connected to the tank flange. Piping, valves and pumps must have structural support independent of the tank.

