

# NOVIN COMPOSITE



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# TANKS, VESSELS & ACCESSORIES

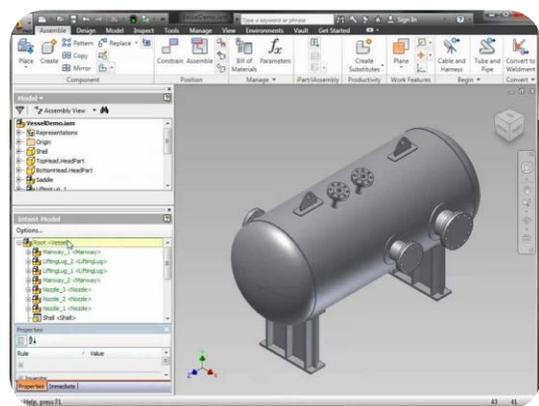
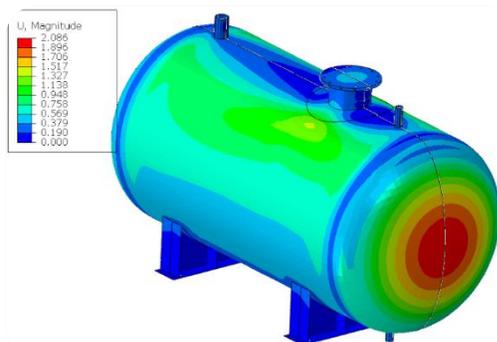
## FRP Tanks and Vessels:

Since 2014, Novin Composite has manufactured a wide range of fiberglass reinforced plastic (FRP) tanks and process vessels to meet virtually any containment requirement. Our Fiberglass Reinforced Plastic (FRP) tanks and vessels are lightweight, corrosion resistant and essentially maintenance free. Novin Composite is ASME RTP-1 accredited and qualified to meet the industry’s most stringent quality standards for storage tanks and vessels.



## Engineering & Design:

Novin Composite offers full in-house drafting for custom fabrications. Our skilled engineers utilize state-of-the-art Computer Aided Design (CAD) systems to deliver accurate fiberglass products to meet our clients’ individual specifications. From concept sessions to intricate design reviews to appropriate recommendations, we can provide the most cost-effective solution to your project needs. Additionally, engineering assistance for structural and mechanical design is available in-house or by associated consultants experienced in Fiberglass Reinforced Plastic (FRP) design.



## Construction:

Our Fiberglass Reinforced Plastic (FRP) tanks come in a wide assortment of shapes, sizes and capacities to meet virtually any storage and processing need. We practice hand lay-up and helical-wound (filament wound) construction.

Tank configurations include:

- Vertical and horizontal with flat, cone, dished or sloped bottom.
- Capacities range up to 200 cube meters with diameters ranging from 300 mm to 4500 mm.
- These structures are highly resistant to a variety of chemicals, corrosive environments and ultraviolet light.



We offer a variety of resin systems to suit the client's specific type of application including:

- Polyester
- Vinyl ester
- Novalac vinyl ester
- Epoxy
- Fire-retardant
- Operating temperatures reach up to 120 °C depending on the resin system selected.

The inner surface of our tanks come with either:

- Glass fiber tissue mat (Surface Veil)
- Polyester Veil (Nexus)
- Thermoplastic liner (P.P., PVC, PVC-U, PVC-C, PVDF, FEP, PTFE, ...)
- Other synthetic veil

For optimum corrosion resistance, exterior surface treatments include:

- Resin-rich topcoat
- Pigmented gel coat
- Chemical resistant glass veil
- Nexus veil
- Other synthetic veils



## Standards:

Tanks and vessels are manufactured to national standards including:

- ASME RTP -1
- BS EN 13121
- ASME Sec. X
- ASTM D3299
- ASTM D4097
- ASTM D3982
- SPI's Quality Assurance Report
- ANSI/AWWA D120
- and more as applicable

## Advantages of Fiberglass Reinforced Plastic (FRP) Tanks and Process Vessels:

Where metals reach their limits for chemical resistance, maintenance, or economic reasons, fiberglass tanks and vessels reach beyond. They are lightweight, corrosion-resistant, and above all, maintenance free.

- Highly resistant to most of the chemicals used today
- Will not crack, chip, peel, rust, rot or decay
- A greater strength by weight than steel
- Resistant to ultra-violet light and plant corrosive environments
- When insulated and/or heat traced, they provide excellent thermal insulation with low heat loss.
- Resistant to galvanic and stray electrical currents, a feature not available in many other materials.



### Tank Fittings & Accessories:

Novin Composite co. manufactures a full line of Fiberglass Reinforced Plastic (FRP) tank accessories, supplies and/or fittings to fit your specific requirements including:

- **Nozzles (Plate or Conical):** Flanged nozzles with plate or conical gussets are available.
- **Legs or Skirt Support:** Fiberglass Reinforced Plastic (FRP) skirt or steel leg support can be constructed for tanks with special support requirements.
- **Lifting & Hold Down Lugs:** Lifting lugs and hold-down lugs are available to fit certain requirements.
- **Ladders and Cages:** Large access platforms can be constructed to your exact specifications to include OSHA-certified ladders, safety cages, top handrails and more. (Large Access Platforms CAN be constructed)
- **Baffles:** Baffles of all size are available for construction.
- **Level Gauges & Calibration Strips**
- **Weirs**
- **Spargers:** We can create spargers according to your system specifications
- **Distributors and Spray Headers**

### FRP Accessories:

Novin composite co. has performed many projects related to FRP accessories such as headers, manholes, ducts and etc. Especially headers that used in chlor-alkali units at petrochemical industries. These accessories could be constructed with many kinds of thermoplastic and Teflon liners such as PVC-U, PVC-C, PP, PVDF, FEP... with FRP coating in order to improvement of mechanical properties.





# Novin Composite

Producer of composite parts in Aerospace , Oil Gas , and Petrochemical industries  
Supplier of raw material in composite industries

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