FRP Tanks for Offshore Applications

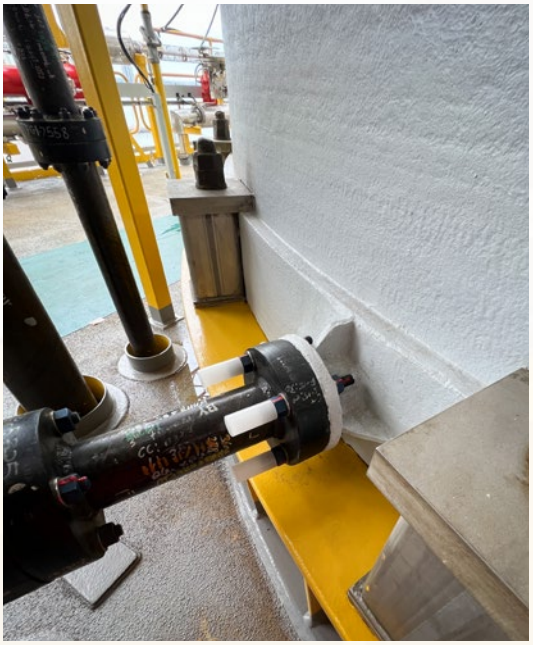
Offshore expertise

Composite strength. Offshore reliability. Unlimited possibilities.

Fiber Glass Systems (FGS) is a global leader in advanced composite piping and tank systems.

With more than five decades of engineering excellence, FGS designs and manufactures fiberglass-reinforced plastic (FRP) tanks that deliver unmatched corrosion resistance, long-term reliability, and lightweight strength for demanding offshore environments.

From subsea to topside and caustics to acids, our FRP tanks are engineered to perform where traditional metallic materials fail. Designed and built to internationally recognized standards and supported by our extensive global service network (GSN), we provide a proven solution for offshore operations.



Product range & specifications

Comprehensive FRP tank solutions for offshore operations

We manufacture a complete range of FRP tanks customized for offshore storage and process applications.

Each tank is designed for specific chemical, pressure, and environmental requirements, ensuring safety, durability, and compliance.

Tank types

- **Vertical & horizontal cylindrical tanks**
  Ideal for process and storage systems
- **Rectangular tanks**
  Suited for limited deck space and skid packages
- **Double-wall tanks**
  Provides secondary containment for hazardous fluids
- **Custom-engineered tanks**
  All orders are tailored for modular offshore units

Technical advantages & performance

Engineered for offshore durability

Our FRP tanks are designed to withstand the harshest offshore conditions — from salt spray and UV exposure to cyclic loading and dynamic movement.

Advanced resin formulations and precision winding technology ensure mechanical strength and long service life with minimal maintenance.

Project Delivery - Shell Crux Tank

20’ (6.1 m) Dia x 14’-1.25”(4.3m) Vertical
Total Tank Volume 33152 gal/125.5m3

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FRP tanks vs. steel tanks – the offshore advantage

In offshore environments where corrosion, weight, and maintenance drive lifecycle costs, FRP tanks deliver significant advantages over conventional steel or stainless-steel alternatives.

Corrosion resistance

Unlike steel tanks, which are prone to corrosion from seawater, chlorides, and harsh chemicals, FRP tanks are inherently resistant.

This eliminates the need for internal coatings, cathodic protection, or frequent repainting, ensuring long-term integrity and reduced downtime.

Lightweight strength

FRP tanks are up to 75% lighter than equivalent steel designs, offering major weight savings critical for topside structures and offshore modules.

This translates into easier handling, faster installation, and reduced support-steel requirements.

Low maintenance & extended service life

FRP tanks require minimal maintenance throughout their lifespan. With no corrosion, coating failures, or rust buildup, operators experience lower operating costs and predictable performance for 25–30 years or more.

Electrical & safety benefits

FRP's non-conductive nature provides inherent electrical insulation and eliminates spark hazards, while optional fire-retardant resins enhance safety in classified offshore zones.

FRP tanks provide offshore operators with a corrosion-proof, lightweight, and maintenance-free alternative, ensuring reliability, safety, and lifecycle value in the harshest marine and offshore conditions.

Applications

Proven in offshore applications worldwide

Our FRP tanks have been deployed across offshore facilities globally, supporting production, drilling, and utility systems in harsh marine environments.

Typical offshore applications

- Water storage tanks
- Chemical storage tanks
- Process water storage tanks
- Potable water storage tanks

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