

# ACID STORAGE TANKS



## DESCRIPTION

The DHI ACIDBOX® provides customers with a solution for onsite storage of acid and other corrosive fluids. The tank is a 500-barrel, single-compartment unit suitable for use with HCl up to a 20% concentration.

## APPLICATIONS

Designed for use in all land-based operations, the ACIDBOX frac tank trailer features a manifold which allows the series connection of multiple units, providing flexibility to meet low and high fluid storage demands. Parallel tandem units are recommended to be used with DHI's secondary containment membranes.

## BENEFITS

- Safe storage
- Versatile configuration
- Small footprint on location
- Holds high-concentrate acid for extended time periods without the risk of deterioration
- Mixes acid to required dilution without concern
- Built as a self-contained trailer unit and can be easily transported and placed onsite without any specialized lifting equipment
- Bolted one-piece fittings connect to the tank with a single gasket, greatly minimizing the potential for leaks

## FEATURES

- Level gauge
- Fill line in polypropylene
- Mounted on a portable skid for easy transport
- All wetted components are comprised of HDPE or acid-tolerant material
- HDPE tank nested inside a steel support structure for robust protection

## SPECIFICATIONS

Capacity.....	400 bbl/16,500 gallons
Tank Material Construction.....	HDPE
Shell Material.....	Steel
Internal Diameter.....	141"
Internal Height.....	246"
Volume Capacity.....	396 bbl
Footprint.....	12' x 12' 8"
Transport Dimensions.....	L 22' x H 12' 8" x W 12'
Transport Weight (Dry).....	13,500 lb.
Connections.....	4" ANSI flange PVC composite
Sight Glass (Optional).....	2" acid-resistant, full length
Automated Valves.....	Optional as needed

**WARNING!** When mixing acid from concentrate, it is absolutely imperative that the acid concentrate is added to the water.  
DO NOT ADD WATER TO THE ACID CONCENTRATE.

Test Type	Test Method	Results
Abrasion resistance	ASTM D4060, CS16 wheel – 1kg weight	41 mg/1,000 cycles
Pull-off adhesion	ASTM D4541, adhesion direct to blasted steel substrate	>6.5MPa (1,000 psi)
Chemical resistance	ISO 2812 Part 1, Immersion @ 25°C (77°F) 5% nitric acid	No defects
	Immersion @ 25°C (77°F) 98% sulphuric acid*	No defects
	Immersion @ 25°C (77°F) 37% hydrochloric acid*	No defects