LibertyCES Double-Wall Chemical Storage Tanks – Technical Specifications

LibertyCES supplies industry-grade double-wall chemical storage tanks designed for maximum safety, chemical compatibility, and environmental compliance. These tanks are ideal for applications where SPCC, EPA, or secondary containment is required. Built with an inner and outer wall system, our tanks prevent leaks and protect operators, equipment, and the environment from exposure to hazardous materials.

Core Technical Specifications

- Tank Construction: Inner tank (primary) + Outer tank (secondary) = Dual-wall containment system
- Materials: HDPE or XLPE (Crosslinked Polyethylene) – rotationally molded, seamless design
- Capacity Range: 55 to 10,500+ gallons
- Wall Thickness: 0.25" to 0.5" depending on size and application
- Color Options: Black (UV stabilized), White/Natural (translucent), Green
- Certifications: NSF/ANSI 61 (potable water), FDA 21 CFR 177.1520, SPCC/EPA-compliant
- Temperature Rating: HDPE: up to 120°F | XLPE: up to 160°F
- Leak Monitoring: Interstitial space with optional visual port or electronic sensor
- Fittings: Bulkheads, vented lids, fill ports, drain valves, level sensors, custom ports
- Installation: Flat concrete or steel base required; anchoring recommended for seismic/wind zones

Performance Advantages

- Built-in secondary containment – no need for external berms or dikes.
- Ideal for SPCC and EPA-compliant installations involving hazardous chemicals.
- Protects operators and reduces environmental liability in case of inner tank breach.
- Prevents ground and groundwater contamination.
- Supports aggressive chemical storage, including acids, oxidizers, and high-pH solutions.
- Compact footprint compared to traditional secondary containment systems.

Common Applications

- Water and wastewater treatment plants
- Chemical feed systems
- Bleach, acid, or oxidizer storage
- Food and beverage processing plants
- SPCC-regulated facilities
- Industrial and municipal backup tanks