

VENDOR CATALOG / ACE ROTO-MOLD (DEN HARTOG INDUSTRIES)

Ace Roto-Mold / Den Hartog Catalog

Rotationally molded polyethylene tanks, 10 to 15,500 gallons, with a real ~200-chemical resistance chart and quantified ESCR stress-crack methodology.

CHEMICAL RESISTANCE DATA

Real Concentration-Specific Ratings

Polyethylene itself becomes chemically Not Resistant at 98% sulfuric acid and in fuming form – a concentration-driven material failure, independent of temperature, not just a thermal limit.

Chemical	Concentration	PE Rating	Notable
Sodium Hypochlorite	12-16.5%+	R	EPDM and Nitrile both flat N; 316SS also flat N
Sulfuric Acid	96%	R, capped to 70°F max	At 98%: PE itself becomes N (Not Resistant)
Hydrofluoric Acid	50%	Known Stress Crack Agent (A)	Nitrile/Santoprene/316SS all rate N
Chlorine (dry gas/liquid)	—	N across PE/PP/EPDM/Nitrile/Santoprene	Only 316SS shows any resistance

ESCR (Environmental Stress Crack Resistance) is mechanically distinct from chemical dissolution – a chemical can rate "R" and still crack under mechanical stress at fittings, bands, and tie-down lugs.

TANK FAMILIES

Vertical · Cone Bottom · Dualline™ Double Wall

Family	Size Range	SG	Notable
Vertical Tanks	10–15,500 gal (44 sizes)	1.6–2.0	Translucent walls with gallon indicators
Cone Bottom Tanks	150–12,500 gal (37 sizes)	1.7–2.0	15°/30°/45° slopes, full-drain variant available
Dualline™ Double Wall	65–6,500 gal	1.7–2.0	Patent 9,162,816, EPDM elastic seal between primary/secondary
Fuel Tanks	6, 12 gal	1.75	XLPE construction — the explicit engineered exception to “no fuels” via cross-linking, not standard LPE

Septic / Cistern



Marine Products



Ace Dock Accessories



Commercial Float Drums



MATERIALS & INSTALLATION GUIDANCE

UV Rating · Fitting Installation

UV rating "15" means after 15,000 hours of sun exposure, 50% of UV protection remains – a real, quantified claim most vendors only describe as "UV stabilized."

Spec	Value
Sustained service temperature	Up to 120°F, intermittent to 140°F
Standard SG rating	1.7 (higher service temp lowers SG rating)
Reinforced concrete pad requirement	Tanks over 1,000 gallons
Fitting hole edge clearance	At least 1" from any adjacent surface

"Wet Fittings" exposed to chemical carry a low-temperature rating equal to the freezing point of the specific chemical/solution, not just ambient conditions.

NEXT STEP

Send LibertyCES the process data, not a part number.

Vertical, cone bottom, and Dualline double wall tanks – real Ace Roto-Mold model specs, but your actual application still has a specific chemical, concentration, and temperature that determines the correct SG rating and construction.

Fluid, chemistry, concentration, temperature, required capacity, and burial/support requirements – that's what a real spec review needs to start.

Request a spec review

james@libertyces.com

(559) 395-5500

libertyces.com