



GTL's ultra-lightweight composite technology utilizes breakthrough materials and manufacturing processes to produce advanced performance tanks and structures. GTL's Mark-48 Torpedo fuel tank replacement is unique design that provides more efficient fuel storage and dispensing method utilizing stronger and lighter graphite composite materials. GTL's composite fuel tank provides longer product life and much lower maintenance resulting in reduced lifecycle cost - **significantly improves fuel utilization increasing range for equivalent cost** and can be applied to all torpedo and submersible applications providing same/similar results.

Features	Benefits
Operational Depth	>>1,200 ft seawater depth
Torpedo Range	<b>Significant</b> increase in torpedo range
Fuel Capability	>>15% increase in useable fuel
Fuel Utilization	<b>Significant increase</b> in fuel utilization (>>10%)
Weight	<b>16.2%</b> Fuel tank weight reduction
Maneuvers	Innovative design <b>minimizes</b> seawater/fuel mixing. Provides positive seawater/fuel separation <b>through majority</b> of torpedo operation.
Corrosion	Composites are insensitive to corrosion.
Composite and Metal Parts Bonding	Composite design mitigates galvanic corrosion risk to surrounding parts. Proprietary bonding technology to ensure bonding between composite/metal.
Maintenance	Design reduces maintenance and replacement needs by <b>&gt;50%</b> compared to aluminum design.
Life cycle cost	Reduces life cycle cost by <b>&gt;50%</b> compared to aluminum design
Meet fuel tank requirements	Composite tank design <b>exceeds</b> capabilities of aluminum design

**Line replaceable at equivalent cost**