

Compare ATL's FluoroCell™ and SuperCell® Fuel Bladders and discover what bladder best suits your needs.

ATL FluoroCell™ Fuel Bladder



Typical Bladder Pictured

ATL SuperCell® Fuel Bladder



Typical Bladder Pictured

*Fuel Resistance

All Fuels; Outstanding Resistance To: Gasoline, Gasoline/Ethanol Blends, Diesel, Bio-Diesel, 100% Ethanol and Bilge Fluids (See Full List Below)

Gasoline, E10, Diesel and Bio-Diesel

Permeation

Very Low - Mil-DTL-6396

Low - Mil-T-52983

Temperature Resistance

210°F

160°F

Flexibility/Collapsibility (with foam removed from bladder)

Moderately Flexible;
2:1 Collapse Ratio

Very Flexible; Can Be Manipulated To Fit In Tight Spaces - 3:1 Collapse Ratio

Custom Sizes; Any Size/Shape

Yes to 3000 gallons

Yes to 5000 gallons

CAD Rendered Templates

Yes - KC/Catia

Yes - KC/Catia

Lightweight/Durable

Yes / Yes

Yes / Yes

Vibration/Shock/Impact Resistant

Yes, Excellent

Yes, Exceptional

Foam Baffling For Explosion Suppression

Yes - SF103/110

Yes - SF103/110

Requires Fully Supporting Container/Structure

Yes - Metal, Fiberglass, Composite, Wood, etc.

Yes - Metal, Fiberglass, Composite, Wood, etc.

Military And Race Industry Proven

Yes for 5 Years

Yes for 25 Years

Cost

Moderate - High

Low - Moderate

Warranty

5 Years

1 Year

FLURO CELL

ATL's new FluoroCell™ Bladders are a revolutionary step forward in the manufacturing of a totally flex-fuel compatible bladder. FluoroCells readily accept and resist (a) high-aromatic gasolines; (b) ethanol oxygenated fuels E10, E50, E85 and E100; (c) Jet Fuel A,B,4,5,8,10; (d) diesel, bio-diesel, bio-butanol, MTBE, (e) crude oil, Bunker C, #4 (f) octane boosters, (g) methanol and even aniline. No other bladder tanks can resist this full range of hi-performance fuels.

Years of exhaustive research and testing have yielded a bladder with these features:

- Superior scuff, cut and abrasion resistance over conventional fuel cell bladders.
- No “extractables” like “gum residue” or “plasticizers” to leach out and contaminate fuel.
- Unparalleled tolerance for continuous temperatures of 210°F (100°C) with brief excursions to 400°F (200°C)!
- Environmentally “green” in that they reduce fuel vapor “diffusion” emissions to 1/100th that of conventional fuel bladders, and without need of any “barrier” coating.
- Can be fitted with internal baffles, pump mounts, collectors etc., either during cell manufacture or later as an upgrade. In contrast, today’s vulcanized bladders are very difficult to modify once cured.
- Readily repairable if ever damaged, unlike conventional fuel cells which absorb fuels and oils making them difficult to patch reliably.
- Made from renewable domestic resources rather than derived from petroleum as all current-day fuel cells are. FluoroCell reinforcing-fabrics are produced from organic materials and then coated with elastomers synthesized from base minerals.
- Pliable and fully deformable, yet totally self-supporting in their containers or cavities. This “stoutness” feature prevents FluoroCell bladders from being whipped and slammed about in their enclosures. That same self-support feature also allows FluoroCell bladders to maintain their shape without the need for internal foam baffling in most cases.
- Exhibit a remarkable resistance to harsh environments, more so than any current fuel bladder design. FluoroCell elastomers display excellent resistance to: UV rays, shock, vibration, freeze-thaw cycles, ozone, acids, salt water, alkalis, hydraulic fluids, and even NBC hazards. Typical dampness-related conditions such as mold, fungus, mildew and hydrolysis are also no match for FluoroCell’s impervious compounds.
- “Non-aging” in that they don’t suffer from volume swell, delamination and surface “crazing” as many other fuel cell bladders do over time. Life expectancy is 15 to 30 years.



SUPERCELL

ATL's SuperCell® Marine Fuel Cells are produced on Ballistic Nylon woven fabrics.

ATL's SuperCell® Marine Fuel Cells are lightweight, super tough, impact and puncture resistant, non-exploding, non-corroding, and immune to shock and vibration. They are fully foam baffled for surge suppression, and are impervious to race fuels, jet fuel, diesel and most additives. Methanol bladders are also available, as is a full complement of accessories including: fuel fittings, cap assemblies, gauges, pumps, surge tanks and interconnecting valves.

ATL Racing Fuel cell bladders are used by Fountain Power Boats, Outer limits Power Boats, MTI, Turbine Marine, Mystic Powerboats, Nor-Tech, Seebold Racing and many other top performers. Life expectancy is 10 to 20 years.

