

A Crash Course in Racing Fuel Cells



WHAT ARE ATL SAFETY FUEL CELLS?

Fuel Cells are sophisticated safety fuel tanks for race cars, stunt cars, race boats, rally cars, off-road vehicles, aircraft and military equipment. Over the past 40 years, ATL has clearly demonstrated that fuel cells offer fire and explosion protection far in excess of any conventional gasoline or diesel tank.

The ATL Fuel Cell system is comprised of an impact resistant rubberized "bladder" filled with explosion suppressant foam baffling and outfitted with a leak-tight cap and fittings. Additional safety equipment frequently includes roll-over check valves and a metal container to deflect impacts and to serve as a flame shield.

Quality ATL Fuel Cells also feature aircraft type nut-ring flanges, fill-valve plates of steel and aluminum plus exclusive fuel-trap devices to prevent fuel starvation.

All of these refined ATL components, working in harmony, provide the serious racer and hobbyist alike with outstanding protection against fuel spillage, post-crash fire and explosion. It has been professionally estimated that the ATL-type fuel cell has prevented 95% to 98% of the fuel fires that otherwise would have erupted in high speed racing accidents.

1970 to 2010!

ARE THERE DIFFERENT "LEVELS" OF FUEL CELL BLADDER PROTECTION?

Yes, there are several distinct "levels" of fuel bladder crash resistance, based primarily on far-reaching standards established by the "Federation Internationale de L'Automobile" (FIA). FIA is the World Sanctioning Organization for Motor Racing, and among its many affiliate organizations are NASCAR, SCCA, NHRA and USAC. USAC (United States Auto Club) has developed its own fuel bladder standards specifically for alcohol (methanol) fuels. Design specifications, test methods and approval processes are quite involved. However, at the right is a helpful summary based on "NTS" (Nominal Tensile Strength), which offers a basic measure of fuel bladder toughness.



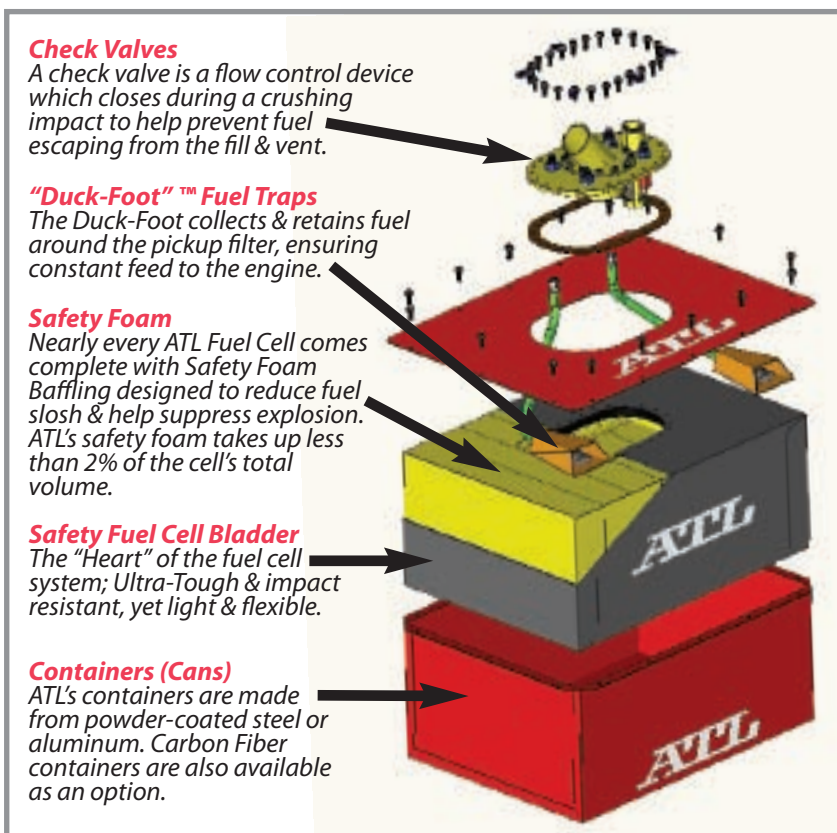
Real-World Crash of an ATL Fuel Cell

ATL Fuel Cell
Crash-Tested
at 140 mph



**NO LEAKAGE!
NO FIRE!
NO EXPLOSION!
NO INJURY!**

That's why so many racers choose the performance, safety and reliability of ATL Racing Fuel Cells.



Check Valves

A check valve is a flow control device which closes during a crushing impact to help prevent fuel escaping from the fill & vent.

"Duck-Foot"™ Fuel Traps

The Duck-Foot collects & retains fuel around the pickup filter, ensuring constant feed to the engine.

Safety Foam

Nearly every ATL Fuel Cell comes complete with Safety Foam Baffling designed to reduce fuel slosh & help suppress explosion. ATL's safety foam takes up less than 2% of the cell's total volume.

Safety Fuel Cell Bladder

The "Heart" of the fuel cell system; Ultra-Tough & impact resistant, yet light & flexible.

Containers (Cans)

ATL's containers are made from powder-coated steel or aluminum. Carbon Fiber containers are also available as an option.

FIA SPEC FT5

(GASOLINE)



NTS = 2000 LB/IN
F1, A1 GP, NASCAR, ALMS, IMSA

FIA SPEC FT3.5

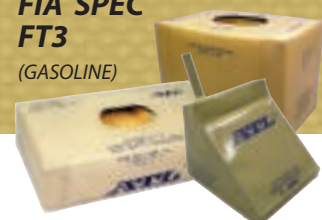
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NTS = 1000 LB/IN
NASCAR, ALMS, IMSA, WRC

FIA SPEC FT3

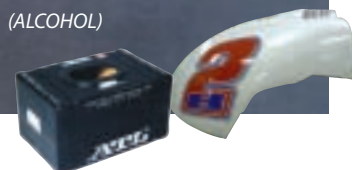
(GASOLINE)



NTS = 450 LB/IN
SCCA, DIRT, CORR, USAR, NASA

USAC 1000

(ALCOHOL)



NTS = 750 LB/IN
Sprints, Midgets, Modifieds, Crown, Champ