

Fuel Systems Technology



 Durabloc™

# Improving your fuel systems just got easy



Gasoline engines power the majority of the world's automobiles, boats, recreational vehicles and outdoor power equipment. These engines require the superior energy density and extensive refueling infrastructure of hydrocarbon fuel power.

With new regulations pending in many geographies, increased use of oxygenates, including ethanol, bio-based chemistries and high vapor pressure fuel formulations, the world is turning increasingly toward more advanced and sustainable technologies to reduce the environmental impact of gasoline powered vehicles and equipment.

Gasoline fuel systems must meet these stringent and complex environmental regulations today, and remain compliant to toughening standards tomorrow, while providing safe and reliable performance.

DuraBloc is the world's next generation barrier for plastic fuel systems for gasoline-powered engines, giving compliance assurance and manufacturing flexibility while minimizing environmental impact.

With DuraBloc, you have the peace of mind that your product is safe, responsible and more appealing to today's consumer.



# Compliance, flexibility and sustainability. Covered.

DuraBloc is our premier fuel systems barrier technology that brings next generation performance to your gasoline powered equipment. It offers the best combination of regulatory compliance, manufacturing flexibility and reduced environmental impact.

## Take compliance to the next level

Ensure you're compliant with major global emission regulations for gasoline fuel systems, including:

- US EPA regulations 40CFR59, 40CFR1060, 40CFR1065, EPA Tier 3 regulations
- California Code of Regulations (CCR) Title 13, Division 3 – ARB (Air Resources Board) LEV I, II, III Initiatives
- European Commission Regulation (EC) No 692/2008, including amendment 2017/1221
- Brazil PROCONVE regulations
- Australia Design Rules (ADR) regulations

## Complete manufacturing flexibility

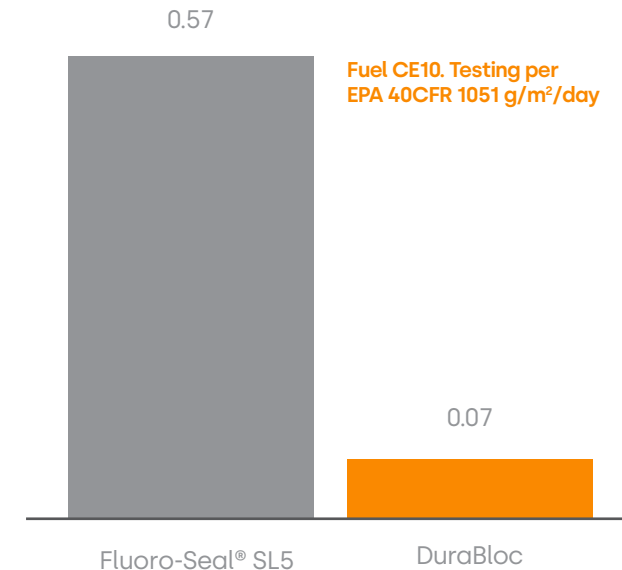
- Total design freedom for:
  - Intricate, complex shapes to basic geometries
  - Blow molding, roto molding, injection molding tanks
  - Tanks, caps, fittings, hoses
  - Various types of fuel

## Complete manufacturing flexibility

- Intricate, complex shapes to basic geometries
- Blow molding, rotomolding, injection molding
- Resin sourcing
- Tank thickness (weight)
- Simplified manufacturing
- Supply chain flexibility
- Suitable for any production volume, from service parts to high volumes

## Reduced Environmental Impact

- Reduced manufacturing footprint and elimination of unrecyclable multilayer plastic fuel tanks.
- Zero emissions and zero process waste
- Lower carbon footprint compared to other plastic fuel system technologies
- Dematerialization of fuel system components
- Superior permeation resistance keeping fuels in place, not in the atmosphere



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# The technology behind the world's next generation barrier

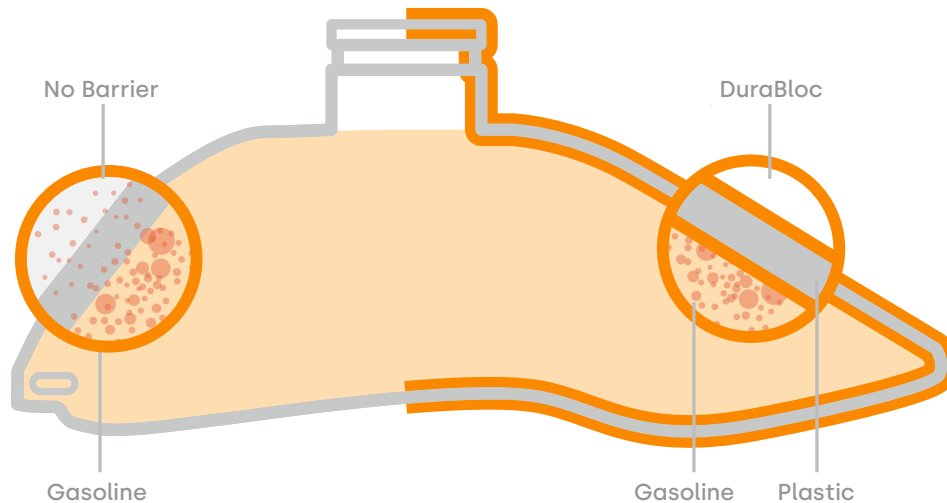
DuraBloc is based on our novel selective direct fluorination (SDF) chemistry that provides excellent barrier performance against fuels.

The technology was developed to minimize permeation against oxygenated fuels and advanced fuels with additives, specifically for HDPE and XLPE fuel tanks. Suitable for all fuel types, DuraBloc maximizes the consistency and uniformity to ensure complete coverage on all components and geometries.

DuraBloc significantly outperforms conventional fluorinated plastic fuel system components.

We collaborate directly with OEMs and molders to deliver a complete solution—from design to prototyping, through testing and certification.

With facilities available globally, DuraBloc can easily be integrated into your existing supply chain logistics—from low to high volume production. We also offer onsite opportunities to optimize efficiency and reduce logistics costs.



# Designed for the widest range of fuel systems



On the road or on the water, DuraBloc can assure compliance, improve design flexibility and increase the sustainability of fuel systems in a wide range of applications, such as:

- Lawn and Garden
  - Push and riding mowers
  - String trimmers
  - Hedge trimmers
- Power Sports
  - ATVs
  - Off-road motorcycles
  - Personal watercraft
  - Side-by-Sides
- Automotive
- Marine
  - Boats
- Outdoor Power Equipment
  - Power generators
  - Pressure washers
- Portable Fuel Containers
- Fuel Conveyance
  - Hoses
  - Caps and closures
  - Fittings



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# World-class performance

**DuraBloc can easily be integrated into your existing supply chain logistics.**

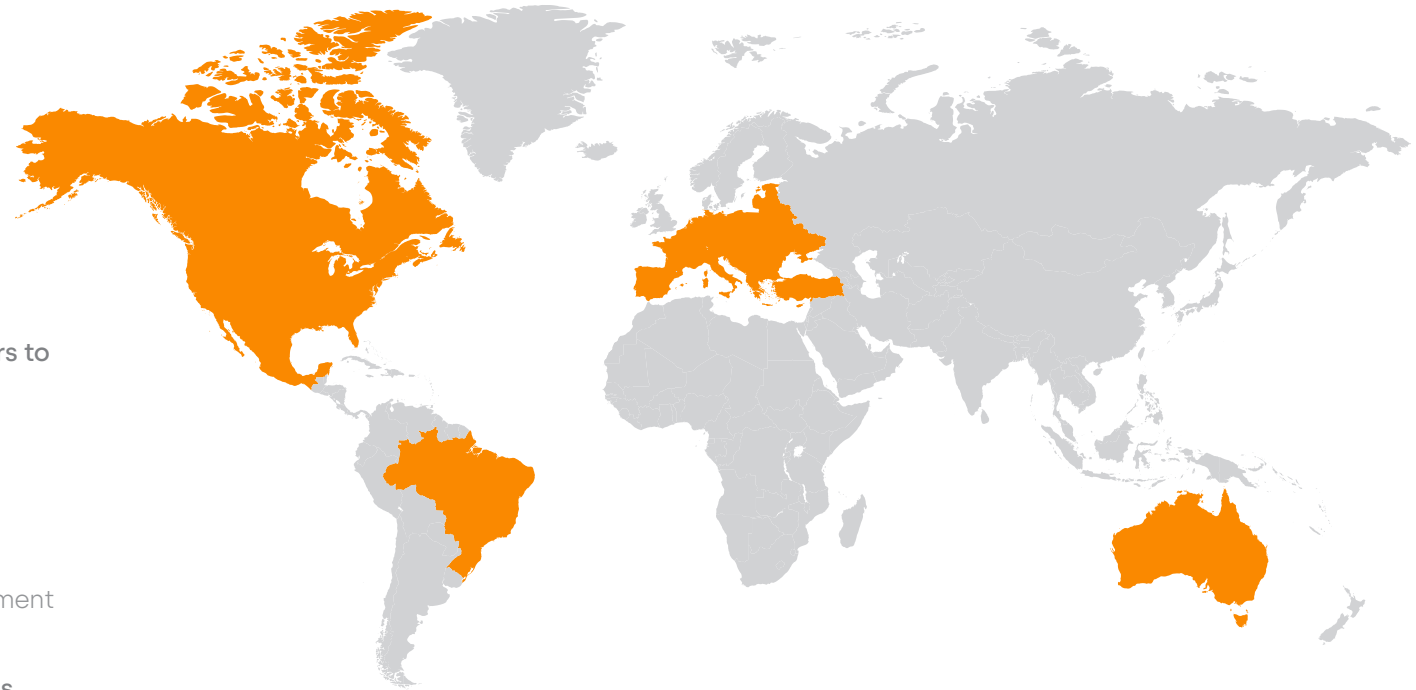
- Multiple toll conversion facilities available, globally
- Onsite opportunities to optimize efficiency and reduce logistics costs

**We collaborate directly with OEMs and molders to deliver the complete solution**

- Design. Prototyping. Testing & Certification
- Product launch
- Production. Assembly. Testing.
- Warehousing capabilities, logistics management

DuraBloc is suitable for low or high volume runs with quick turnaround times.

Design > Prototyping > Testing > Certification > Manufacturing



**Global HQ:**  
Houston USA

**Regional HQs:**  
Mexico  
Brazil  
Australia  
Germany



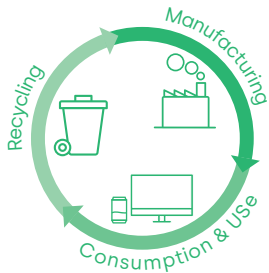
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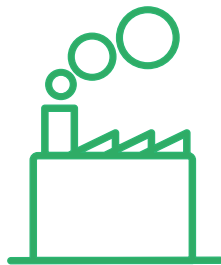


# The best choice for the planet

DuraBloc maintains the recyclability characteristics of HDPE monomaterial fuel tanks.



Designed for the Circular Economy



Reduced fossil fuel consumption

By choosing DuraBloc, you're joining us in our mission to support the circular economy and reduce the environmental impact of your products.

Our sustainable manufacturing process generates zero process emissions, zero process waste and zero water waste.

We don't just make things. We make things better for the world.



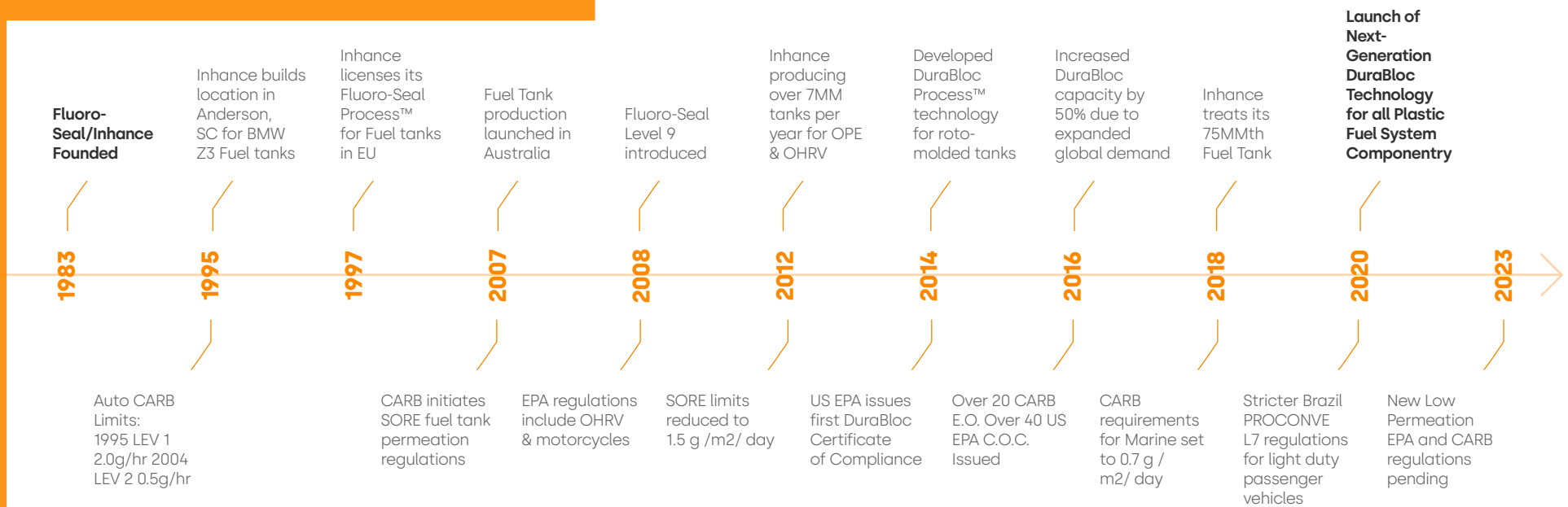


# A history of Innovation

Inhance Technologies has been providing industry leading innovations for fuel systems for four decades.

With operations in the Americas, Australia and Europe, we believe in the science of better: innovating safer, more environmentally-friendly technologies. Our barrier packaging and surface technologies, ingredients and other solutions transform your offerings from a commodity to a specialized solution.

If you do good things in plastic, we make good better.



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**For more information on DuraBloc™**

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