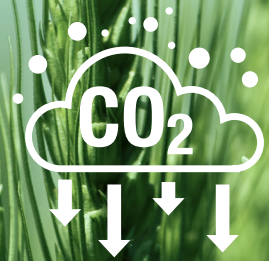


# CO<sub>2</sub> By Rail



## THERMAL PERFORMANCE RE-ENGINEERED

Our next-generation CO<sub>2</sub> tank car sets the industry standard with advanced insulation and precision thermal management designed to minimize product loss and preserve cargo integrity. Engineered for best-in-class performance, safety and loading/unloading flexibility, it delivers a scalable, rail-ready solution purpose-built for carbon capture and sequestration across the ethanol, cement, steel, hydrogen and fertilizer markets.

**Industry-Leading Payload**  
Advanced insulation and thermal performance minimize CO<sub>2</sub> loss and extend transit times, with the first vent occurring at 25 days. The DOT-105J500W design maximizes efficiency, carrying up to 22,000 gallons of CO<sub>2</sub> per tank car to deliver superior economics and more value per move.

**DOT & AAR Compliant**  
Engineered to DOT and AAR standards, this pressurized tank car uses an integrated thermal protection system to keep liquid CO<sub>2</sub> within a safe temperature range throughout transit. High-strength steel construction, top-only fittings in a protective housing, a 500 PSI test rating and a jacketed shell with puncture-resistant heads deliver enhanced safety and durability.

**Operational Flexibility with Built-In Safety**  
Configurable valve and fitting packages accommodate a broad range of loading temperatures with 286K or 263K gross rail load service, enabling flexible loading and unloading operations. Purpose-engineered brackets and anchor systems reduce impact exposure while providing durable, easy-to-maintain tank strapping for long service life and lower maintenance costs.

**Real-Time Intelligence. Real-World Control.**  
Optional telematics deliver continuous visibility into temperature, location and load condition, enabling proactive decision-making and optimized fleet performance—supported by an expert fleet management team dedicated to maximizing asset life and uptime.



# Precision Thermal Management

Robust insulation process minimizes CO<sub>2</sub> loss and maximizes transit times—with first vent occurring at 25 days.\*

Loading Temperature	Ambient Temperature	Transit Days to First Vent
-6°F	80°F	8-10
-20°F	80°F	13-15
-6°F	40°F	16-18
-20°F	40°F	25-28

\*Under optimal conditions

CO <sub>2</sub> Tank Car Specifications	
Test pressure	500 PSI
Car length (over pulling faces)	55' 8-1/2"
Car height	15' 6"
Clearance	Plate C
Car width	10' 6-3/4"
Capacity	22,000 gallons
Gross rail load	286,000 lbs.
Load limit	186,000 lbs.

