

RAIL

MOVING AMERICA FORWARD



CO2 by Rail – North American Overview



CO2 by Rail – Rail Car Specification



Specification:

- DOT105J340/400W
 - Jacketed
 - Insulated
 - Pressure Regulating
 - Full Sill Underframe

Capacities:

- Volume: 22,000 Gallon (approximate)
- Weight: 286,000 lbs. Gross Rail Load

CO2 by Rail – What's Moving Today



- CO2 – Proper Shipping Name (PSN)
 - Carbon Dioxide, Refrigerated Liquid
 - Class 2.2
 - UN2187
- CY 2020 North American Shipments
 - 11,287 Shipments
 - 1,275 Tank Cars Used
 - Fleet Size Approximately 1,300 Cars
 - 8.9 Shipments Per Car/Yr
- Ranks 31st of Top 125 Commodities

CO2 by Rail – Moving Forward (Key Issues)

- Fleet Availability
 - Current Fleet is Captive
 - New Business = New Cars
 - Average Cost of New Car - \$200K - \$225K
- Rail vs. Highway Transportation
 - Volume – Rail Supports Large Volume Shipping Campaigns
 - Origin-Destination Pairs (Travel Distance/Time)
 - Moves Less Than 500 Miles Typically Move by Highway
 - Highway = 1 Day or Less
 - Rail = 1-4 Days



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