

UTILITY REFRIGERATED TRAILERS DELIVER FOR THE PLANET



For Utility Trailer Manufacturing Company LLC, the largest refrigerated trailer manufacturer in North America, enhanced performance and energy efficiency is top priority. That's why when they needed a more energy efficient foam insulation for their 3000R[®] reefer, they turned to Honeywell's ultra-low global warming potential (GWP) Solstice[®] Blowing Agents.

THE CHALLENGE

Reduce Greenhouse Gas Emissions from Reefer Insulation Systems

The refrigerated trailer (reefer) industry is facing an environmental challenge resulting from the use of high GWP materials, such as hydrofluorocarbons (HFCs), in the manufacturing process of insulation foam.

For decades, HFCs were the preferred blowing agent in polyurethane foam insulation applications, but this material contributes to greenhouse gas emissions.

As a result, HFCs are being phased out.

The industry needed an alternative that provided minimal GWP and maximum energy efficiency. Furthermore, Utility required a solution that enabled superior insulation performance.



Honeywell

Utility is helping to reduce greenhouse gas emissions by utilizing Honeywell Solstice® materials. Use of Honeywell Solstice® technology by companies around the globe has helped avoid the potential release of the equivalent of more than

326 million

metric tons of carbon dioxide into the atmosphere; equal to the carbon emissions from nearly

70 million

gasoline-powered passenger vehicles per year

Since converting to Solstice® blowing agents, Utility impact has resulted in:

- The equivalent of nearly **147k+** cars off the road every year
- Replacing the amount of CO₂ converted by **258M+** acres of trees every year
- Can help save the CO₂ equivalent of the power to run more than **68K** homes

Calculations are based on actual sales of Solstice® products (in lbs) from Jan 2010 through Dec 2022, and utilize the EPA GHG equivalency calculator for conversion.

THE SOLUTION

Low-GWP Solstice® Blowing Agents for Reefers

Honeywell's Solstice® Blowing Agent checked all the boxes for Utility:



PROVIDES BETTER R-VALUE

Solstice® Blowing Agents improve the R-value of conventionally processed polyurethane foam in the production of the reefer's walls.



HAS EXCELLENT DIMENSIONAL STABILITY AND ADHESION

Versus systems formulated with alternative blowing agents such as pentanes or HFC-134a.



IS BETTER FOR THE ENVIRONMENT

Solstice® Blowing Agents have a global warming potential (GWP) of 1 – 99.9% lower than the GWP of hydrofluorocarbon (HFC) blowing agents. Foams using Solstice® Blowing Agents have shown an improvement in R value (which represents thermal conductivity) when compared with foams made with HFCs or pentanes.



LOW TEMPERATURE

At temperatures required for refrigerated trailers, foam systems with Solstice® Blowing Agents perform up to 12% better than cyclopentane.



BETTER QUALITY

Utility's foam-in-place insulation using Solstice® Blowing Agents provides a 100%, 360-degree void-free foam envelope to ensure the entire trailer is fully insulated.



NONFLAMMABLE

Solstice® Blowing Agents are nonflammable. Flame limit measured at ambient temperature and pressure using ASTM E 681-85 with electrically heated match ignition, spark ignition and fused wire ignition; ambient air.

Learn More

www.utilitytrailer.com

Honeywell Advanced Materials

115 Tabor Road
Morris Plains, NJ 07950
USA
www.sustainability.honeywell.com

The proven Utility 3000R and 3000R Multi-Temp refrigerated vans are the industry's strong light weight high payload performers. The Utility 3000R can also be custom built with a variety of options to meet your operational requirements

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LEGACY of INNOVATION

Get all the benefits of a superior solution built on a legacy of innovation.



WORLD LEADING REEFER SUPPLIER

From humble beginnings more than a century ago, Utility has grown to become a leading force and technology trendsetter in trailer manufacturing. They are the world's No. 1 manufacturer of reefers and offer a full line of dry freight and flatbed trailers.

Honeywell

OPTIMIZE INSULATION PERFORMANCE

Honeywell has invested more than one billion dollars in its Solstice® technology, having anticipated the need for lower-global-warming-potential (LGWP) solutions more than a decade ago. Today, Honeywell is helping customers lower their greenhouse gas emissions and improve energy efficiency without sacrificing performance.



Long-Term
Performance



Environmental
Benefits

THE
FUTURE
IS
WHAT
WE
MAKE IT

Honeywell