



Innovative Materials for a More Sustainable World

Arkema is committed to delivering sustainable solutions driven by innovation. As both a company and as a brand, we are constantly identifying opportunities not just to comply with regulations but to ultimately continue to lower our impact on the environment. Through a commitment to safety, ethics, and human rights, we keep an open dialogue with our customers and our community to ensure that we follow through on our commitments.

The AIM Act

The American Innovation and Manufacturing (AIM) Act was enacted in December 2020. It gives the U.S. Environmental Protection Agency (EPA) three new ways to reduce emissions of hydrofluorocarbons (HFCs): (1) phasing down HFCs by allocating allowances authorizing production and consumption, (2) facilitating the transition to next-generation technologies through sector-based restrictions and (3) maximizing reclamation and minimizing releases from equipment. In October 2021, EPA issued a final rule (the Allowance Allocation Rule) that focuses on the first area – the phasedown of HFC production and consumption. The Agency also granted several petitions that likely will lead to HFC controls in particular sectors.

As part of our commitment to sustainability, Arkema supports the AIM Act. For more information on how Forane[®] Refrigerants will continue to support the phase down, visit [Forane.com](https://www.arkema.com). Or grab [The AIM Act Flyer](#).

Arkema & R-32: The Right Choice for the U.S. HVAC Market

Arkema is a major global refrigerants producer, and the only U.S. based producer of R-32 HFC at its Calvert City, Ky plant. Arkema is proud of its more than 60 year legacy with the Forane[®] brand, meeting the challenges of the industry. As regulations such as the AIM act drive change to lower GWP products, the U.S. HVAC market is in search of the follow-on refrigerant to R-410A. It is therefore critical as the market evolves to partner with companies that offer service with a proven record of quality and reliability. Arkema continues to promote R-32 in HVAC applications as a low GWP choice to replace R-410A. R-32's higher efficiency and capacity has driven increased adoption of the product globally.



R-1233zD for Heat Transfer

This winter, Arkema is proud to announce the global launch of Forane® Refrigerants 1233zD. Forane® Refrigerants 1233zD is our most efficient refrigerant to-date with a GWP of 1, low environmental impact, and ASHRAE Class A1 rating. This low pressure refrigerant is non-flammable and features the lowest level of toxicity.

R-1233zD is a high purity trans-1-chloro-3,3,3-trifluoropropene, for use in centrifugal chillers and related applications, throughout the world.



Nutrien® Partnership

Arkema has partnered with Nutrien® Ltd, the largest integrated agricultural company in the world, for a long-term supply agreement for anhydrous hydrogen fluoride (AHF) for its Calvert City (KY) site, of which about half will be used for the production of low-GWP (global warming potential) fluorogases. Arkema will invest US \$150 million in a 40 kt/year AHF production plant at Nutrien's site in Aurora (North Carolina).

In line with Arkema's commitments for the environment, this AHF will be produced using an element that occurs naturally in the phosphate that Nutrien® uses to manufacture its products, replacing the more usual source of mined fluorspar. Nutrien® will recover the fluoride from its process and convert it to AHF at its Aurora site. This innovative investment is the first of its kind in the United States, and is perfectly in line with the Group's new climate plan as it reduces overall energy consumption and greenhouse gas emissions. The new plant supports the growth of fluoro-polymers in the attractive segments of water treatment, electronics and batteries, and it offers greater environmental protection than more traditional production processes.

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