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## Arkema K.K. and Central Glass Co. Ltd. launch distribution agreement for Forane® 1233zd foam blowing agents and heat transfer products in Japan

Arkema K.K. (Japan) and Japan's Central Glass Co. Ltd. are proud to announce an agreement for exclusive distribution of Arkema's Forane® 1233zd foam blowing agent and heat transfer products in Japan.

Forane® 1233zd is a highly-effective hydrofluoroolefin (HFO) for use in polyurethane foams and other foams as well for use as a heat transfer fluid in centrifugal chiller applications. It is non-ozone depleting, non-flammable, and has an ultra-low Global Warming Potential (GWP) of 1.

"Arkema and Central Glass each have a deep base of knowledge in fluorochemicals," said Paul Lavallee, Arkema's Global Market Manager for Foams. "As Japanese F-Gas regulations and 'Top Runner Program' energy efficiency requirements approach, Central Glass and Arkema stand ready to assist customers in making the conversion to the more environmentally friendly Forane® 1233zd option," Lavallee noted.

"Partnering with Arkema enhances our product portfolio for our customers," said Mr. Shigeharu Suzuki, General Manager – Chemicals Sales Department of Central Glass. "We now offer the latest, environmentally beneficial blowing agents and chiller solutions. Arkema and Central Glass are proven fluorochemicals leaders, and we are proud to join our efforts" added Mr. Suzuki.

The primary goal of the distributor relationship is to utilize Central Glass' proven infrastructure and broad presence in the Japanese market to more effectively market Arkema's Forane® 1233zd to a diverse and growing customer base. Commercial quantities and inventories are currently available.

For more information, please call Koichi Yamamoto, Tel: +81-(0)3-3259-7308 or email [ko-yamamoto@cgco.co.jp](mailto:ko-yamamoto@cgco.co.jp) or Zhihui Miao, Ph.D., Tel.: +81-(0) 3-5251-9597, or e-mail: [zhihui.miao@arkema.com](mailto:zhihui.miao@arkema.com)

### Background on both companies:

*Central Glass, formerly called Ube Soda Industry Co., Ltd., was established in 1936 in Ube City in Yamaguchi. With soda production as its base, the company expanded into the fertilizer business and later, in 1958, launched its glass business. The company changed its name to Central Glass Co., Ltd. in 1963. Today, Central Glass has expanded into a wide range of fields, including architectural glass, automotive glass, glass for electronic materials, chemicals, fertilizers, fine chemicals and glass fibers, and continually strives to respond to the diversified needs of society. The Company has 39 subsidiaries and 16 associated companies (as of March 31, 2018). Central Glass will contribute to the establishment of a truly prosperous society through the spirit of "Monozukuri".*

*\*Monozukuri refers to all the business activities in which the Central Glass Group engages with a basic stance of integrity and sincerity, including R&D, quality oriented manufacturing, and sales. [www.cgc-jp.com](http://www.cgc-jp.com)*

*A designer of materials and innovative solutions, Arkema shapes materials and creates new uses that accelerate customer performance. Our balanced business portfolio spans High Performance Materials, Industrial Specialties and Coating Solutions. Our globally recognized brands are ranked among the leaders in the markets we serve. Reporting annual sales of €8.3 billion (\$9.4 billion) in 2017, we employ around 20,000 people worldwide and operate in some 55 countries. We are committed to active engagement with all our stakeholders. Our research centers in North America, France and Asia concentrate on advances in bio-based products, new energies, water management, electronic solutions, lightweight materials and design, home efficiency and insulation. [www.arkema.com](http://www.arkema.com)*

Forane® is a registered trademark of Arkema.

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