

Evonik's Polyamide 12 Wins European Plastics Innovation Award

February 19, 2016

- VESTAMID® NRG enables cost-effective installations of natural gas networks and pipelines and reduces their maintenance needs
- Technical Standard GW335-A6 for the material published in December 2015 by the German Technical and Scientific Association for Gas and Water (DVGW)

The Resource Efficiency Segment of the Essen-based Evonik Group received the European Plastics Innovation Award in the "Material Innovation" category for its use of polyamide 12 (PA 12) VESTAMID® NRG in high-pressure gas pipelines.

European Plastics Converters (EuPC), the Association of Plastics Manufacturers in Europe, and the Society of Plastics Engineers (SPE) had organized the joint award for the first time in eight different categories. It recognizes companies that have attracted public attention with particularly innovative developments in plastics technology.

VESTAMID® NRG offers an outstanding property profile for high-pressure pipelines and enables gas utilities to effectively build up their subterranean pipeline networks without any concern about losses in throughput performance. A number of installations, including in the U.S., Brazil, Mexico and Indonesia, have demonstrated that pipes made of PA 12 allow for significant savings in labor and installation cost compared to steel.

In its rationale for the award, the jury, made up of representatives from universities, politics, NGOs and the media, highlighted Evonik's decade-long intensive research that resulted in gas pipe materials for the high-pressure segment up to 18 bar and their installation, along with the company's efforts to support the requisite approvals. The most recent step in the safety-relevant authorization of the material is its inclusion in the test specification by the German Association of Gas and Water (DVGW) of December 2015, entitled "Plastic piping systems in gas and

Ariel Fang

Communications

Tel +86 21 6119-1505

Fax +86 21 6119-1116

Ariel.fang@evonik.com

Grace Shen

Marketing Communications,
High Performance Polymers

Tel +86 21 6119-1367

Fax +86 21 6119-1377

Grace.shen@evonik.com

Evonik Industries AG

Rellinghauser Straße 1-11

45128 Essen

Germany

Phone +49 201 177-01

Telefax +49 201 177-3475

www.evonik.de

Supervisory Board

Dr. Werner Müller, Chairman

Executive Board

Dr. Klaus Engel, Chairman

Dr. Ralph Sven Kaufmann

Christian Kullmann

Thomas Wessel

Ute Wolf

Registered office Essen

Registered court

Essen local court

Commercial registry B 19474

VAT ID no. DE 811160003

water distribution; GW335–A6: Pipes made of PA–U 160 and PA–U 180 and associated fittings and joints.”

“This test specification will pave the way for installations in Germany,” says Markus Hartmann, Head of the Oil & Gas segment, who oversees the Evonik business with VESTAMID® NRG. “Our experiences with installations involving our coordinated system of straight and rolled–up pipes from 32 to 160 mm made of VESTAMID® NRG and the associated fittings have been very good so far. The award will encourage us to further advance this application.”

The flexible selection of length—especially over extended installation sections—saves time and cost because fewer welding seams are required. Installers can use the same equipment as for PE pipes. In addition, no anti–corrosive treatment is required and the material enables trenchless installation, which also lowers cost.

VESTAMID® has been used by renowned manufacturers for over 50 years. While the first applications included automotive duct systems, the continuous advancement of the material eventually led to its use in large–volume pipes for oil and gas production and gas distribution.



Caption: Gas pipes for gas distribution with pressures up to 18 bar can be installed from a roll, using trenchless technology.



Caption: The innovation award honors Evonik’s decade-long intensive research along with the company’s efforts to support the requisite approvals for high pressure gas pipes.

Company information

Evonik, the creative industrial group from Germany, is one of the world leaders in specialty chemicals. Profitable growth and a sustained increase in the value of the company form the heart of Evonik’s corporate strategy. Its activities focus on the key megatrends health, nutrition, resource efficiency and globalization. Evonik benefits specifically from its innovative prowess and integrated technology platforms. Evonik is active in over 100 countries around the world. In fiscal 2014 more than 33,000 employees generated sales of around €12.9 billion and an operating profit (adjusted EBITDA) of about €1.9 billion.

Evonik Industries has been producing specialty chemical products in the Greater China region (Mainland China, Hong Kong and Taiwan) since the late 1970’s; with wide-ranging trading relations already in place prior to this in the region. Evonik regards Greater China as one of the driving forces of the global economy and we consequently endeavour to grow our business in the region. The company now has around 3,000 employees in the Greater China region, the regional sales reached over €1.1 billion in 2014.

Disclaimer

In so far as forecasts or expectations are expressed in this press release or where our statements concern the future, these forecasts, expectations or statements may involve known or unknown risks and uncertainties. Actual results or developments may vary, depending on changes in the operating environment. Neither Evonik Industries AG nor its group companies assume an obligation to update the forecasts, expectations or statements contained in this release.