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Borealis and Borouge: Bringing energy all around at Wire Düsseldorf 2016

Visico™ and Borlink™ innovations support sustainable grid development, new asset investments strengthen global innovation leadership

Borealis and Borouge, leading providers of innovative, value-creating solutions for the wire and cable industry, will be at **Wire Düsseldorf 2016** (4-8 April) to present their newly-launched Visico™ flame retardant (FR) systems for building and photovoltaic cables, and to showcase their leading-edge Borlink™ grades for high voltage direct current (HVDC) and extra high voltage (EHV) applications. The companies will also use the occasion to announce an important new investment in electrical lab facilities in Stenungsund, Sweden, as well as the imminent availability of wire and cable grades produced at Borouge's brand new low density polyethylene (LDPE) plant in Abu Dhabi, UAE.

Continued innovation leadership with Visico flame retardant portfolio extension

As leading global innovators, Borealis and Borouge continue to provide customer-driven solutions in wire and cable designed to satisfy the highest technical performance demands. The expansion of the flame retardant product portfolio with Visico technology is the most recent example of how Borealis and Borouge use their proven technologies to enhance productivity and material reliability in wire and cable applications. Based on the Visico scorch retardant technology, the new low fire hazard (LFH) compounds **Visico™ FR4450** and **Visico™ FR4451** are halogen-free, silane crosslinkable insulation and jacketing systems for building wires and photovoltaic cables, respectively. Used together with the specially designed catalysts LE4439 (natural) and LE4433 (black), these compounds exhibit excellent processability and scorch resistance, combined with good mechanical properties and flexibility.

- **Visico FR4450** is a unique LFH solution approved by Underwriter Laboratories (UL) for use in UL 44 and UL 854 building and industrial wire. Unlike conventional applications based on brominated flame-retardant additives, FR4450 is halogen-free.

- **Visico FR4451** is designed to meet demanding requirements for photovoltaic cables. When used in combination with LE4439 in the insulation and jacketing, it enables easier processing and a longer shelf life than most currently available solutions.

Building the grids of the future for sustainable and reliable power supply

A track record of more than 15 years of Borealis and Borouge experience in HVDC has yielded innovations that enable renewable energy integration and help develop grids for a reliable power supply. Most recent among these innovations is step-change **Borlink™ LS4258DCE**, introduced in 2014. This grade enables the use of extruded cable technology at significantly higher voltage and transmission levels, achieving record levels of 525 kV in type and pre-qualification testing according to the Cigré TB 496. Also launched in 2014, **Borlink™ LS4201EHV** provides the benefits of the Supercure technology in the most demanding EHV power cable applications building on an outstanding cleanliness track record and bringing valuable benefits for cable manufacturers in terms of improved processing and production cycle.

“Thanks to proprietary technologies like Borlink and Visico, Borealis and Borouge have the most complete offering of innovative wire and cable solutions to promote greater energy efficiency and more interconnections,” says Bart Verheule, Borealis Head of Marketing Energy. “We are dedicated to providing differentiated solutions to our customers for their lasting– and more environmentally sustainable – success.”

Investing in the future to ensure continuous innovation

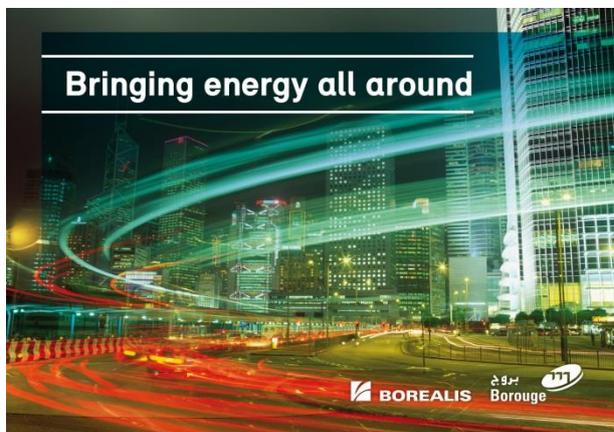
A new high pressure LDPE plant and XLPE compounding facility are integral components of the massive Borouge 3 expansion project now nearing completion in Abu Dhabi. Starting in 2016, wire and cable grades – including Borlink medium voltage and Visico low voltage grades – will be produced at this brand new plant and distributed to the market from what is now the world’s largest integrated polyolefins complex. Once all plants have been fully ramped up, Borouge will have an annual production capacity of 4.5 million tonnes.

“The Borouge 3 expansion project is without parallel in the industry,” explains Roland Janssen, Borouge Vice President Marketing Centre Wire and Cable. “Our commitment to remain the leading innovator and a reliable global partner is clearly evident through our ongoing investments in enhancing our assets around the world, including Borouge. Thanks to the additional capacity made available through this expansion, we will be able to serve our partners even more reliably and consistently than before.”

Borealis has also announced a EUR 3.5 million investment in its Electrical Testing Lab facilities at the Innovation Centre in Stenungsund, Sweden. The Electrical Lab investment will further enhance existing electrical competence and expertise in project execution, and encourage cooperation with customers and external partners. The investment will increase the capability of electrical testing of cables produced at its own cable extrusion facility, opened in 2009. It will enable Borealis to simulate alternate current

(AC) and direct current (DC) performance of model medium voltage cables and expand development capabilities supporting the continued innovation leadership.

Visit Borealis and Borouge from 4-8 April in Düsseldorf, Germany, at the 2016 Wire Düsseldorf at Hall 10, Stand D72.



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About Borealis and Borouge Energy

For over 50 years, Borealis has been a leading provider of polyolefin compounds for the global wire and cable industry. Its large portfolio of products and services is based on unique and proprietary technologies that create real value for customers and enable step-change innovations. A broad range of sophisticated extra-high, high and medium voltage cable applications as well as semi-conductive products are made possible by Borealis' Borlink™ technology. Borealis' Visico™/Ambicat™ technology is used in low voltage energy transmission and distribution cable solutions, where it helps extend the lifetime of cable systems. Capacitor film products are consistently and qualitatively enhanced by Borealis' leading polypropylene (PP) material solutions.

About Borealis and Borouge

Borealis is a leading provider of innovative solutions in the fields of polyolefins, base chemicals and fertilizers. With headquarters in Vienna, Austria, the company currently has around 6,500 employees and operates in over 120 countries. Borealis generated EUR 7.7 billion in sales revenue and a net profit of EUR 988 million in 2015. The International Petroleum Investment Company (IPIC) of Abu Dhabi owns 64% of the company, with the remaining 36% belonging to OMV, an international, integrated oil and gas company based in Vienna. Borealis provides services and products to customers around the world in collaboration with Borouge, a joint venture with the Abu Dhabi National Oil Company (ADNOC).

Building on its proprietary Borstar® and Borlink™ technologies and more than 50 years of experience in polyolefins, Borealis and Borouge support key industries with a wide range of applications in the areas of energy, automotive, pipes, consumer products, healthcare, and advanced packaging.

The Borouge 3 plant expansion will make Borouge the world's largest integrated polyolefins complex. Once fully ramped up in 2016, the additional 2.5 million tonnes of polyolefins capacity will yield a total Borouge capacity of 4.5 million tonnes, and a combined Borealis and Borouge capacity of 8 million tonnes.

Borealis offers a wide range of base chemicals, including melamine, phenol, acetone, ethylene, propylene, butadiene and pygas, servicing a wide range of industries. Borealis also creates real value for the agricultural industry, selling approximately 5 million tonnes of fertilizers. Technical nitrogen and melamine products complement the portfolio with applications ranging from mono-nitrogen oxide (NOx) abatement to glues and laminates in the wood working industry.

Borealis and Borouge aim to proactively benefit society by taking on real societal challenges and offering real solutions. Both companies are committed to the principles of Responsible Care®, an initiative to improve safety performance within the chemical industry, and work to solve the world's water and sanitation challenges through product innovation and their Water for the World™ programme.

For more information visit:

www.borealisgroup.com

www.borouge.com

www.waterfortheworld.net

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