

Case Study

A Groundbreaking Development in Chemically Foamed Communication Cables



BOREALIS

بروج

Borouge



Introducing the World's first chemically foamed ADCA-free HDPE

In a groundbreaking development for cable manufacturers, Borealis' launch of HE1355 means for the first time there is an ADCA-free material for use as a blowing agent in communication cables.

A safer alternative to ADCA

ADCA (Azodicarbonamide), known to sensitize the respiratory system, has been classified as a Substance of Very High Concern by REACH. Furthermore, in 2019, the European Commission recommended that ADCA should be listed as a chemical that requires authorization for use. The newly introduced HE1355 offers a safer alternative, free from harmful substances and comparable to ADCA in terms of performance.

	Physical Foaming	Chemical Foaming
Usage	Data Cable & Mini Coax	Foamed Communication Cable
MDPE	-	ME1254
HDPE	HE4883	HE1355

Benefits to your business



Bypasses the costly need for ADCA authorization, which takes up to four years.



There is no limit to the length of time HE1355 is authorized for use.



Matches the technical performance of ADCA containing solutions.



Safeguards the cable value-chain against ADCA's harmful effects.

Offering sustainable solutions for a brighter and safer future

Bringing energy all around via sustainable solutions, Borealis offers cable makers a seamless transition to our ADCA-free alternative. It is our aim to be a reliable partner and we are here to help your organization work towards a brighter, safer future.

Reach out to us for further information: borealisbringsenergy.com/adca-free

Borealis solutions bring energy all around

Borealis has been a trusted partner to the energy industry for over 60 years, delivering innovative polyolefin solutions that help power our lives. Our portfolio includes high-performance compounds for wire and cables applications ranging from underwater power projects to transmission and distribution networks, communications, and advanced energy storage systems and capacitors.

With operations and joint ventures in the US (Baystar™ and Rockport), South Korea (DYM Solutions) and the UAE (Borouge), our reach extends well beyond Europe. This global presence widens our expertise and extends the impact of our work.

Our purpose is to reinvent essentials for sustainable living. As part of this commitment, we're helping to accelerate electrification and the green energy transition through our proprietary technologies and advanced material solutions. These include technology platform Borlink™, sustainable engineering polymer class Stelora™, solar brand Quentys™, and Borclean™ capacitor film resins.

Meanwhile, our Borcycle™ M, Borcycle™ C and Bornewables™ portfolios are meeting demand for sustainable solutions that don't compromise on quality. Independently certified by ISCC PLUS, these high-performance compounds are the tangible result of our EverMinds™ initiative to drive progress in the transition to a circular economy.

Borclean™, Borcycle™, Borlink™, Bornewables™, EverMinds™, Quentys™ and Stelora™ are trademarks of Borealis AG.

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