



## Press Release

# VELOX announces replacement of ATO in brominated flame retardant systems

Hamburg, 22 September 2017.

Environmentally and health friendly, lightweight, highly efficient and economical: FRX Polymers Inc., the global leader in polymeric halogen-free flame retardant solutions, has announced the availability of its Nofia<sup>®</sup> non-halogenated polyphosphonates as a replacement for antimony trioxide (ATO) in brominated flame retardant products. VELOX GmbH is FRX Polymers' exclusive distribution partner in Europe and provides a wide range of additives solutions as well as comprehensive technical support and consultation. Nofia<sup>®</sup> is best-suited for use in consumer electronics, textiles, building, construction and transportation markets.

"For the time being Nofia's effectiveness as an ATO replacement has been reported in glass-filled nylon 66, polybutylene terephthalate (PBT), polyethylene terephthalate (PET), and thermoplastic polyurethane (TPU)", says Jasmin Seebade, Product Manager Additives at VELOX. "The industry has been waiting for a non-toxic as well as more efficient and economic substitute for ATO for a long time. Now, that our partner FRX Polymers has successfully validated Nofia<sup>®</sup>'s use as an excellent synergist in brominated flame retardant systems, we are delighted to provide our European customers with a proven solution."

Nofia<sup>®</sup> polyphosphonates are delivering lighter weight and reduced cost. In typical formulations, the end customer will start to experience a savings per part when using Nofia<sup>®</sup> versus ATO, when ATO prices are higher than about \$5.5/kg. (see accompanying diagram below). Due to its polymeric nature, Nofia<sup>®</sup> will deliver improved mechanical properties compared to ATO and will not migrate or bleed out of the host plastic over time. In contrast, ATO has a tendency to migrate out of the host plastic over time. The elimination of health and environmental concerns associated with ATO is just another benefit of using Nofia<sup>®</sup>.



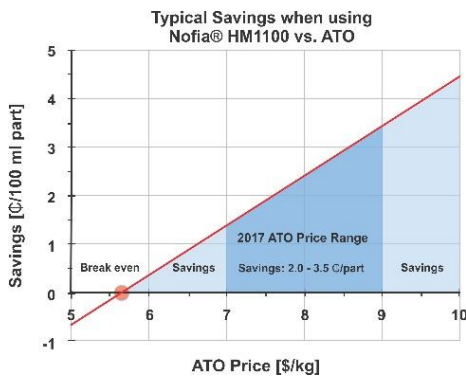
"Our unique non-halogenated flame retardants winning broad support across a range of applications and this new use is another example where Nofia polyphosphonates' versatility stands out," says Dr. Jan-Pleun Lens, Vice President, Research and Applications, for FRX Polymers.

Nofia<sup>®</sup> polyphosphonates are being sold as polymeric flame retardant additives, flame retardant engineering plastics, and as reactive flame retardant additives for thermosetting resins. During production a solvent-free process has been established with no waste by-products, to name only two sustainable green principles of this award-winning technology.

VELOX is happy to provide more detailed information and samples on request.

**Contact at VELOX:**

Jasmin Seebade  
Product Manager Additives  
T: + 49 40 36968864  
F: +49 40 369 688 88  
E: seebade@velox.com



Caption: Savings per part when using Nofia<sup>®</sup> instead of ATO.

**About VELOX GmbH:**

VELOX GmbH is a leading pan-European distributor of raw material specialities and solution provider for the plastics, composites, rubber, paints and coatings industries. Founded in 1993 by Bernard Goursaud and N. Max Schlenzig, VELOX is headquartered in Hamburg, Germany. The company has 21 offices throughout Europe and employs over 230 experienced employees to support its customers across Europe and beyond.

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**Press Contact:**

VELOX GmbH

Hasmik Matinyan

PR & Communications Manager

[matinyan@velox.com](mailto:matinyan@velox.com)

+49 (0)40 369 688 946

Brandstwiete 1

20457 Hamburg, Germany