

Solvay at FAKUMA 2018 | Hall B4 Booth #4213

New Technyl® advanced materials for electrical connectivity applications in e-mobility

Lyon, France, October 16, 2018 – Solvay Performance Polyamides introduces new advanced Technyl® polymer solutions to address the growing need for personal protection and systems safety for the automotive industry. A whole family of electro-friendly low-corroding materials has been developed to meet the needs of car manufacturers.

The range comprises six Technyl® and Technyl Star® grades offering reliable purity based on dedicated formulation and clean compounding. Two of these grades use bio-based, eco-friendly Technyl® eXten technology for applications needing high temperature combined with glycol resistance. The range will be commercially available early 2019.

“Halogens and phosphorous in polyamide have been identified as major contributors to galvanic corrosion, a potential source of system failure and short-circuits which could lead to fire,” says Dr. James Mitchell, Automotive Market Director for Solvay’s Performance Polyamide global business unit. *“Safety is not an option! We have developed a range of materials with high levels of purity to help automotive OEMs and Tier 1 suppliers ensure the protection of systems from corrosion and ionic migration.”*

Automotive applications requiring these solutions include electrified cooling systems, sensors and connectors, as well as high-power EV chargers.

For fuel cell stack components, Technyl® One has emerged as a preferred material choice, offering more value to customers when compared to polyphthalamide (PPA) compounds in terms of both in-use performance and processability. This material combines a near-zero ion migration potential with outstanding heat resistance, dimensional stability against hydrogen leakage, electrical insulation, high surface aspect and weldability.

“This is the first and unique PA66-based offer on the market specifically designed for fuel cell technology. It serves critical safety applications such as hydrogen manifolds, heater plates, humidifiers and water traps,” added Mitchell.

In addition to these advanced material solutions, Solvay Performance Polyamides offers a complete array of technical services designed to speed the time to market of new applications. This offering includes predictive simulation with MMI Technyl® Design¹, 3D printing of functional prototypes in Sinterline® PA6 powders as well as part testing at fully equipped APT® Technyl® Validation centers².

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¹ MMI Technyl® Design is an advanced service powered by Digimat from e-Xstream, an MSC Software Company.

² Located in Lyon, France and Shanghai, China.

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Solvay is an advanced materials and specialty chemicals company, committed to developing chemistry that addresses key societal challenges. Solvay innovates and partners with customers worldwide in many diverse end markets. Its products are used in planes, cars, batteries, smart and medical devices, as well as in mineral and oil and gas extraction, enhancing efficiency and sustainability. Its lightweighting materials promote cleaner mobility, its formulations optimize the use of resources and its performance chemicals improve air and water quality. Solvay is headquartered in Brussels with around 26,800 employees in 61 countries. Net sales were €10.1 billion in 2017, with 90% from activities where Solvay ranks among the world’s top 3 leaders, resulting in an EBITDA margin of 22%. Solvay SA ([SOLB.BE](#)) is listed on Euronext Brussels and Paris (Bloomberg: [SOLB.BB](#) – Reuters: [SOLB.BR](#)) and in the United States its shares (SOLVY) are traded through a level-1 ADR program. *Financial figures take into account the announced divestment of Polyamides.*

Learn more about the Technyl® brand at [www.technyl.com](#), and follow us on [Twitter](#) / [Facebook](#) / [YouTube](#) / [Instagram](#).

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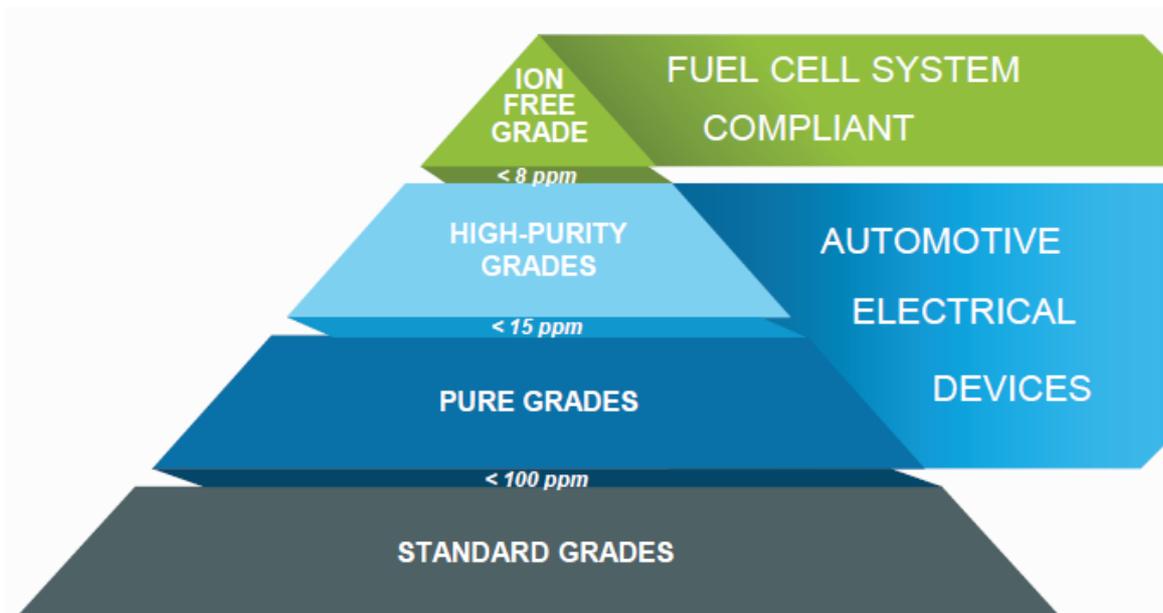
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TECHNYL®



Technyl® offers OEMs a complete range of electro-friendly products to adapt purity needs to the diversity of application requirements.

Graphic courtesy of Solvay Performance Polyamides.