



High performance materials for automotive

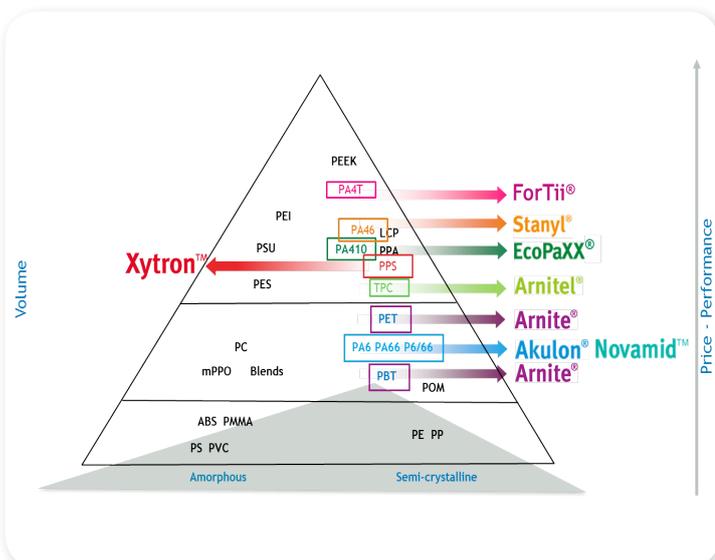
For more than 25 years DSM has worked with the automotive industry to design better, smarter, safer, lighter – and increasingly greener components.

By connecting its unique competences in life sciences and materials sciences, DSM is able to create downstream value through in-depth understanding of, and the ability to successfully address, the challenges faced by its customers and customers' customers.

DSM has a broad portfolio of high performance materials. These include Stanyl® high-heat PA46, ForTii® high performance PA 4T, EcoPaXX® 70% bio-based PA410, Akulon® PA6 and PA66, Arnitel® thermoplastic copolyester, Arnite® polyesters (PBT and PET), and Xytron® PPS

We offer a unique material portfolio, bringing you for example:

- Stanyl and Akulon Diablo, offering outstanding thermal stability over extended periods of time at elevated temperature. The technology provides a significant improvement in long-term temperature resistance components such as air intake manifolds with integrated intercoolers, ducts, charge air cooler end caps, mixing tubes and resonators used in the latest car engines.
- Arnite A is a 35% glass-fiber reinforced polyethylene terephthalate resin that brings toughness, durability and excellent dimensional stability inside the body and/or the control housing itself – in fact it has been shown to perform reliably over more than one million brake cycles.
- Akulon PA6 and PA66 have proven performance in many metal replacement solutions, e.g. oil sumps. Oil sumps in Akulon passed a series of high-tech safety tests including curb impact, stone impact, and the engine drop test.



	Akulon (PA6)	Akulon (PA66)	Stanyl (PA46)	Arnite (PET)	Arnite (PBT)	Arnitel (TPE)	Xytron (PPS)	ForTii (PA4T)	EcoPaXX (PA410)
Powertrain	X	X	X				X	X	X
Air & Fuel	X	X	X			X	X		X
Safety components	X	X		X		X			
Interior	X	X				X			
Exterior	X	X			X				
Chassis & structural parts	X	X				X	X	X	
Auto electronics	X	X	X		X		X	X	

Table 1: our product portfolio

Our competences form the backbone of innovation at DSM, covering specific aspects of scientific insight and expertise. They range from knowledge and best practices accumulated over time, to the advanced technological equipment and facilities we use today. Juts to mention some examples:

- Advanced CAE (Computer Aided Engineering) capabilities and services
- Strong global technical support and application development support
- Dedication to innovate by collaboration with key partners, throughout the value chain.

Global partner in automotive

Ultimately, partnership is about people. That’s why our brightest minds, from scientists to sales and marketing professionals, are keenly focused on customer relationships – and supported by state-of-the-art facilities, technologies and processes. We manufacture on three continents to guarantee a steady supply of materials and have research facilities and sales and marketing offices around the globe to create a solid network that includes research and technology support and account management. Whether in Russia, China, the United States or the United Kingdom, when you work with DSM you can be assured of having dedicated people ‘on the ground’ who not only know the automotive industry but also the nuances of your local market.

Our locations worldwide



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