Gelest, Inc. Launches SIVATE™ E610 Enhanced Amine Functional Silane; Improves corrosion resistance, durability and bond strength


SIVATE™ E610 Enhanced silane is a proprietary combination of a dipodal silanes with an amine functional silane. The Enhancement of silanes is effected by incorporation of functional and non-functional dipodal silanes. The dipodal silane combines with the functional silane to form a tight conformal network of
siloxane bonds, reduces water adsorption at the interface and, most importantly, forms multiple oxane bonds with the substrate.

Compared to conventional silanes, which potentially bond form 3 oxane bonds, SIVATE™ E610 Enhanced amine silane can form up to 6 oxane bonds with the substrate. Theoretical studies suggest that the dipodal silanes could have up to $10^6 \times$ greater stability in aqueous environments. The enhanced bond potential offers improve mechanical properties, the ability to form coatings on a greater range of substrate, and increase durability of coatings, primers and composites to long-term environmental exposure.

The introduction of SIVATE™ E610 Enhanced amine silane is an example of Gelest’s customer-centric research and development. For more information or to request samples, visit Gelest, Inc. at www.gelest.com.
About Gelest

Gelest, Inc., headquartered in Morrisville, Pennsylvania, is recognized worldwide as an innovator, manufacturer and supplier of commercial and research quantities of organosilicon compounds, metal-organic compounds and silicones. Gelest serves advanced technology markets through a materials science-driven approach. The company provides focused technical development and application support for semiconductors, medical materials, pharmaceutical synthesis, diagnostics and separation science, and specialty polymeric materials: “Gelest – Enabling Your Technology.” www.gelest.com

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