

# Specialty Chemistry for Precision Performance

Over 50 years of customer focus with emphasis on silicones and other specialty chemistry.

Difficult to manufacture chemistries are our specialty and confidentiality is a cornerstone of our business.

Call us, **1-800-331-6313**. SiVance's Customer Service Representatives will answer the phone. They will answer questions and promptly guide resources to you.

Create rapid commercial success with innovative products. From small samples to developing efficient processes for plant scale supply of material, SiVance will work with you to develop a platform for your new product success.

Give us a chemistry challenge and we will solve it. Our Chemists and Engineers love to hear, **"Can you make this molecule?"**

## SiVance has deep roots in chemical innovation.

In 1953, the company began as an idea by two University of Florida Chemistry Professors to produce custom products. Today, SiVance is an agile corporation focused on the design and manufacture of advanced silane, siloxane and silicone intermediates. Corporations both large and small repeatedly engage SiVance for our expertise in specialty silicon-based technologies and best-in-class process capabilities.

The 65-acre site contains Research & Development laboratories, analytical capabilities for chemical analysis and route development, and production facilities ranging from kilogram scale, to pilot and multi-ton commercial scale. Our focus on rapidly transitioning lab scale innovations into sophisticated manufacturing processes has allowed SiVance and its customers to move new materials rapidly through the development pipeline into successful commercial products. Today, more than 140 employees produce hundreds of silicon-based products considered vital to the performance and value of industrial and consumer products manufactured around the world.

As silicone technology requirements have become more demanding and the availability of in-house synthetic chemists' time is limited, companies call on SiVance for the expertise required to advance the performance of their sophisticated chemistries. Manufacturers of pharmaceuticals, semiconductors, and personal care chemistries, among others, work with SiVance benefiting from our broad range of silicon-based technologies and our rich history as a provider of enabling technologies. Typical volumes for SiVance include kilogram scale manufacturing through our Research Chemical Manufacturing (RCM) Laboratory, to pail, cylinder, drum and tanker scale from our pilot facilities and integrated multi-purpose plant. SiVance's added expertise in organic chemistry complements its silicone technology base, further demonstrating the Company's leadership in new organic and inorganic molecule developments.

SiVance offers market expertise to customers with its capability to produce silicon-based products no others can match in terms of both performance and value. Once widely known as PCR and recently owned by Clariant Corporation, we have returned to our roots, as a nimble company, operating as a stand-alone multi-purpose manufacturer owned by GenNx 360 Capital Partners.



# Markets

SiVance chemistry offers precision performance to a broad range of markets. We serve these markets through two routes; **(1) Custom Manufacturing:** working with individual customers to develop custom designed molecules meeting the performance needs of existing or emerging applications, or **(2) Market Focused Products.** Our product's eventual end use markets include; automotive, electronics, personal care and cosmetics, adhesives and coatings, construction, optics, surface treatments, pharmaceutical intermediates and silicone intermediates.

**Custom Manufacturing:** With our diverse manufacturing capabilities, companies turn to SiVance to develop and manufacture quality chemicals unique for their business. Difficult to manufacture molecules are our specialty and confidentiality is a cornerstone of our business.

**Electronics and Semiconductor Electronics:** Leveraging our expertise in the high purity chemical syntheses of organic and inorganic molecules, advanced process engineering and surface science, we provide material solutions to global semiconductor electronics manufacturers and their immediate suppliers. These applications include; HMDS<sub>e</sub> (electronic grade hexamethyldisilazane) supplied in specialty packaging for photoresist adhesion enhancement, raw material sourcing for Low k and silicon nitride CVD precursors, and high refractive index phenyl silanes and siloxanes for optical transmission specific applications.

**Silicone Intermediates for Polyaddition and Condensation Cured Elastomers:** SiVance provides novel intermediates to our customers to improve physical properties and cure rates of elastomers. These products are used in organic thermoplastic and thermosetting elastomers as well as for silicone RTV's, LTV's, LSR's and HCR's. Vinyl functional silanes and siloxanes are used as intermediates to create unique vinyl functional polymers. For example, the inclusion of vinyl groups greatly increases crosslinking efficiency with organic peroxides in condensation cure reactions and yields elastomers with lower compression set and improved high temperature and oil and solvent resistance. Functional MQ Resins, Hydride-functional siloxanes, functional cyclic siloxanes, including fluoro- and phenyl-cyclics, are also available.

**Personal Care and Cosmetics:** The benefits of silicone for cosmetic products are well known in the industry. In skin creams, SiVance's silicones create smoothness and prevent tackiness. In natural oils and sunscreens, silicones improve the spreadability, creating a product that provides a luxurious feel on the skin. Also, the use of silicone resins improve the "non-transference" of many common cosmetic products in the market today. Innovative products are critical to success in the personal care industry and SiVance's knowledge in silicone chemistry and manufacturing enables our customers to use novel silicones giving their products performance advantages in the market.

**Coatings and Adhesives:** With any type of material; polymers, resins, metals, glass or ceramics, SiVance silicones can improve the compatibility of surfaces with better adhesion or releasability, scratch and mar resistance, gloss retention, and water repellency or wettability. Our silicone hydrides and MQ Resins function as crosslinking agents for coatings and adhesives providing improved properties. Our functional siloxanes can improve the physical characteristics of traditional resin systems by imparting silicone characteristics such as flexibility, durability and improved hot and cold resistance. Our Prosil line of organofunctional silanes are used to enhance surface adhesion and wettability performance for coatings and adhesives and as surface treatments for inorganic fillers such as SiO<sub>2</sub>, TiO<sub>2</sub>, and many others.

**Pharmaceuticals:** SiVance provides silicon-based reducing and blocking agents to the pharmaceutical industry. Our silicon-based blocking agents provide viable options for protection-deprotection requirements for many products already in the industry. SiVance is the largest producer in the world of Norbornadiene and its derivatives. In addition to our commercially available products, SiVance also provides fine-tuned R<sub>3</sub>Si compounds that can be tailored for your unique reaction requirements.



 **SiVance**  
Chemistry... for Precision Performance

For additional information, please visit our company website: [www.sivancellc.com](http://www.sivancellc.com)  
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