

NXT™ P97 silane

Product Description

NXT P97 is another family member of Momentive's mercapto silanes for Tire and Rubber applications. The use of NXT P97 silane can support the tire industry to meet the increasing requirements to reduce rolling resistance and improve wear performance of tires. NXT P97 silane-based compounds may enable improved tire performance while reducing the environmental footprint mile after mile.

Key Features and Typical Benefits

- Wear — the use of NXT P97 silane may result in improved DIN and Angle Abrasion over standard silanes. Tires may benefit from increased mileage, or the possibility to reduce tire tread depth, resulting in improved RR and lower material usage and cost.
- Rolling resistance (RR) — NXT P97 silane-based compounds may show very low hysteresis and improved RR indicators compared to standard silanes.
- Wet grip — the grip over RR balance may be improved when using NXT P97 silane.
- Handling — Compounds with NXT P97 silane may be adjusted to balance dynamic stiffness and tire handling indicators while maintaining competitive RR performance.
- Compounding — NXT P97 is based on mercapto silane technology. Adjustments may be required when replacing standard silanes to provide sufficient green rubber processability and achieve the full performance benefits of NXT P97 silane. As an example, a vulcanization package containing TBzTD instead of DPG and at least one sulfenamide accelerator may result in sufficient scorch safety and ensure the required crosslink density.

Typical Physical Properties

Property	Value
Physical Form	Clear liquid
Color	Pale yellow
Specific Gravity at 25 °C	0.976
Flash Point Closed Cup (°C)	110

Typical properties are average data and are not to be used as or to develop specifications.

Potential Applications

Compound formulations for tires or technical rubber goods.

Patent Status

Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute the permission, inducement or recommendation to practice any invention covered by any patent without authority from the owner of the patent.

Product Safety, Handling and Storage

Customers should review the latest Safety Data Sheet (SDS) and label for product safety information, safe handling instructions, personal protective equipment if necessary, emergency service contact information, and any special storage conditions required for safety. Momentive Performance Materials (MPM) maintains an around-the-clock emergency service for its products. SDS are available at www.momentive.com or, upon request, from any MPM representative. For product storage and handling procedures to maintain the product quality within our stated specifications, please review Certificates of Analysis, which are available in the Order Center. Use of other materials in conjunction with MPM products (for example, primers) may require additional precautions. Please review and follow the safety information provided by the manufacturer of such other materials.

Limitations

Customers must evaluate Momentive Performance Materials products and make their own determination as to fitness of use in their particular applications.

Customer Service Centers

For additional information, please contact our Customer Service Team

AMERICAS	+1 800 295 2392 Toll Free* +704 805 6946 Direct Number
LATIN AMERICA	BRAZIL +55 11 4534 9650 Direct Number MEXICO +52 55 2169 7670 Direct Number *All American countries
EMEA – EUROPE, MIDDLE EAST, AFRICA & INDIA	EUROPE +390510924300 Direct Number INDIA, MIDDLE EAST & AFRICA +91 44 71212207 Direct Number* *All Middle Eastern countries, Africa, India, Pakistan, Bangladesh, Sri Lanka
ASIA PACIFIC	CHINA 800 820 0202 Toll Free +86 21 3860 4892 Direct Number JAPAN +81 3 5544 311 Direct Number KOREA +82 2 6201 4600 Direct Number SOUTH EAST ASIA, AUSTRALIA & NEW ZEALAND +60 3 9206 1543 Direct Number* *All East Asia countries (Malaysia, Singapore, Thailand, Indonesia, Vietnam, Philippines, Cambodia, Myanmar / other countries located in Pacific region)
Visit us at www.momentive.com	

THE MATERIALS, PRODUCTS AND SERVICES OF MOMENTIVE PERFORMANCE MATERIALS INC. AND ITS SUBSIDIARIES AND AFFILIATES (COLLECTIVELY “SUPPLIER”), ARE SOLD SUBJECT TO SUPPLIER’S STANDARD CONDITIONS OF SALE, WHICH ARE INCLUDED IN THE APPLICABLE DISTRIBUTOR OR OTHER SALES AGREEMENT, PRINTED ON THE BACK OF ORDER ACKNOWLEDGMENTS AND INVOICES, AND AVAILABLE UPON REQUEST. ALTHOUGH ANY INFORMATION, RECOMMENDATIONS, OR ADVICE CONTAINED HEREIN IS GIVEN IN GOOD FAITH, SUPPLIER MAKES NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, (i) THAT THE RESULTS DESCRIBED HEREIN WILL BE OBTAINED UNDER END-USE CONDITIONS, OR (ii) AS TO THE EFFECTIVENESS OR SAFETY OF ANY DESIGN INCORPORATING ITS PRODUCTS, MATERIALS, SERVICES, RECOMMENDATIONS OR ADVICE. EXCEPT AS PROVIDED IN SUPPLIER’S STANDARD CONDITIONS OF SALE, SUPPLIER AND ITS REPRESENTATIVES SHALL IN NO EVENT BE RESPONSIBLE FOR ANY LOSS RESULTING FROM ANY USE OF ITS MATERIALS, PRODUCTS OR SERVICES DESCRIBE HEREIN. Each user bears full responsibility for making its own determination as to the suitability of Supplier’s materials, services, recommendations, or advice for its own particular use. Each user must identify and perform all tests and analyses necessary to assure that its finished parts incorporating Supplier’s products, materials, or services will be safe and suitable for use under end-use conditions. Nothing in this or any other document, nor any oral recommendation or advice, shall be deemed to alter, vary, supersede, or waive any provision of Supplier’s standard Conditions of Sale or this Disclaimer, unless any such modification is specifically agreed to in a writing signed by Supplier. No statement contained herein concerning a possible or suggested use of any material, product, service or design is intended, or should be construed, to grant any license under any patent or other intellectual property right of Supplier covering such use or design, or as a recommendation for the use of such material, product, service or design in the infringement of any patent or other intellectual property right.

The use of the “™” symbol designates registered or unregistered trademarks of Momentive Performance Materials Inc. or its affiliated companies. Momentive and the Momentive logo are registered trademarks of Momentive Performance Materials Inc.

Copyright 2023 Momentive Performance Materials Inc. All rights reserved.

www.momentive.com



260 Hudson River Road
Waterford, NY 12188 USA
momentive.com