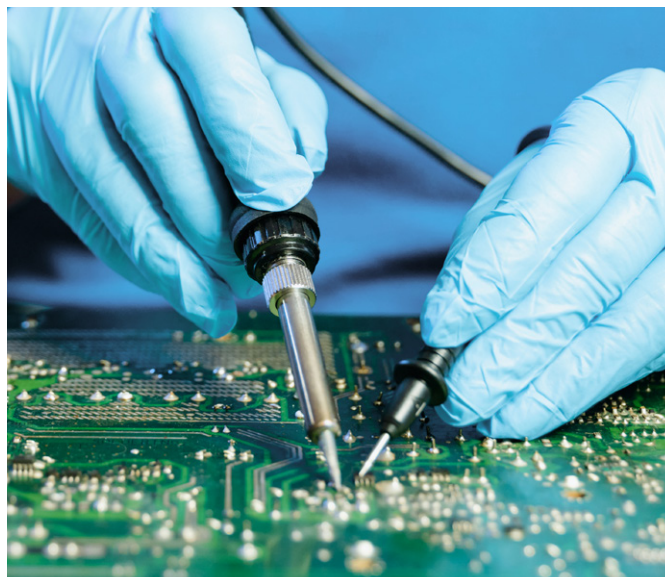
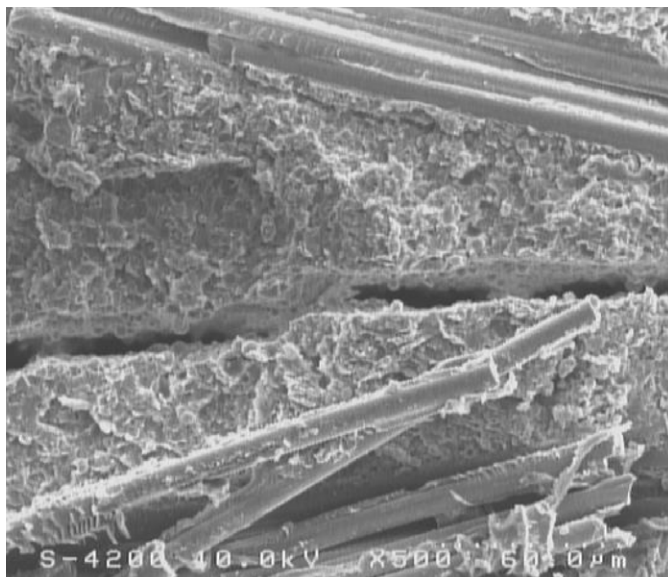


Dynasylan® HYDROSIL 2978 – an aqueous oligomeric aminoalkyl- and vinylbenzylamino-functional silane hydrolysate with multifunctional properties



The multifunctional nature of its reactivity enables **HYDROSIL 2978** to bind and interact with inorganic and organic substrates, thus functioning as an excellent adhesion promoter and surface modifier.

HYDROSIL 2978 is a slightly yellow to darker yellow-orange liquid. It is easily dilutable in water, while pH value is already acidic and does not need specific control.

Dynasylan® HYDROSIL 2978 – At a Glance



Attractive product profile

- reactive primary & secondary amino groups
- reactive styrenic double bonds
- antistatic cationic centers for excellent solubility
- reactive silanol groups



Easy to use

- immediate solubility in water
- better polymer wetting
- only <1 wt.-% alcohols are liberated during processing



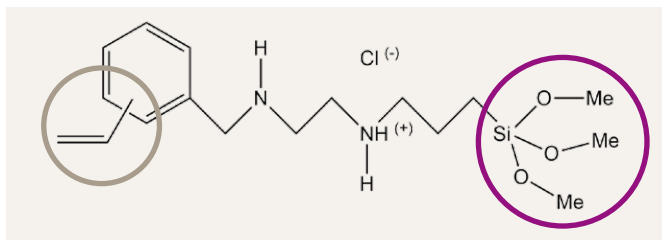
Benefits

- improved temperature stability (>350 °C)
- Improved mechanical properties
- Improved electrical properties
- more reliable processes due to prevented steps of hydrolysis and condensation of the alkoxysilanes
- no complex storage regulation/high flash point

Vinylbenzylchloride substituted AMINO-Silane Products in the Market

VPS 1178 (Evonik) / Z-6032 (Dow) / S350 (JNC) / KBM 575 (Shin Etsu)

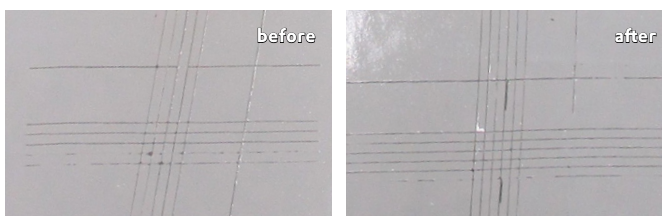
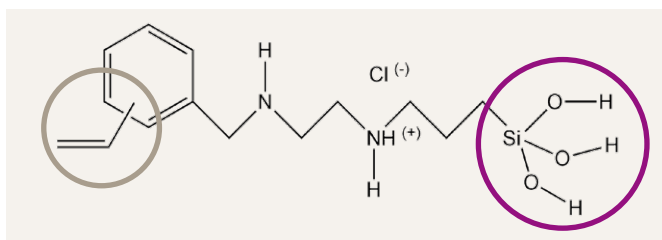
- solvent based (methanol at $\approx 60\%$)
- standard material for glass fiber applications like reinforced printed circuit boards
- valuable for various applications
- flash point: $11\text{--}13^\circ\text{C}$ (methanol)
- $\sim 64\%$ methanol release



Samples treated with **VPS 1178**
(cutted before and after 120 min in boiling water)

Dynasylan® HYDROSIL 2978 (Evonik)

- water based (water at $\approx 60\%$)
- patented Dynasylan® HYDROSIL technology
- valuable for various applications, glass fiber and glass fabric treatment preferred
- flash point: $>95^\circ\text{C}$
- $<1\%$ methanol release



Samples treated with **Dynasylan® HYDROSIL 2978**
(cutted before and after 120 min in boiling water)

This information and any recommendations, technical or otherwise, are presented in good faith and believed to be correct as of the date prepared. Recipients of this information and recommendations must make their own determination as to its suitability for their purposes. In no event shall Evonik assume liability for damages or losses of any kind or nature that result from the use of or reliance upon this information and recommendations. EVONIK EXPRESSLY DISCLAIMS ANY REPRESENTATIONS AND WARRANTIES OF ANY KIND, WHETHER EXPRESS OR IMPLIED, AS TO THE ACCURACY, COMPLETENESS, NON-INFRINGEMENT, MERCHANTABILITY AND/OR FITNESS FOR A PARTICULAR PURPOSE (EVEN IF EVONIK IS AWARE OF SUCH PURPOSE) WITH RESPECT TO ANY INFORMATION AND RECOMMENDATIONS PROVIDED. Reference to any trade names used by other companies is neither a recommendation nor an endorsement of the corresponding product, and does not imply that similar products could not be used. Evonik reserves the right to make any changes to the information and/or recommendations at any time, without prior or subsequent notice. Dynasylan® is a registered trademark of Evonik Industries or its subsidiaries.

Evonik Operations GmbH
Smart Effects business line
Rodenbacher Chaussee 4
63457 Hanau
Germany

ask-se@evonik.com
www.evonik.com
www.evonik.com/smarteffects
evonik.click/smarteffects-
industrial-applications

The Silica and Silanes experts at Evonik – From elements to excellence.