

PROSILANE™ SC-1118

BIS[(3-TRIMETHOXYSYLYL)PROPYLAMINE]

PRODUCT DESCRIPTION

SC-1118 is a secondary amino functional silane possessing two symmetric silicon atoms. It may act as an adhesion promoter between inorganic materials (for example glass, metals and fillers) and organic polymers (thermosets, thermoplastics and elastomers) or as a surface modifier. SC-1118 is a clear to slightly yellowish liquid with an amine-like odor.

TYPICAL PRODUCT DATA*

Property	Unit	Typical Value
CAS#	-	82985-35-1
Formula		C ₁₂ H ₃₁ NO ₆ Si ₂
Appearance	-	Clear Liquid
Boiling Point	°C	152
Flash Point	°C	>100
Refractive Index	-	1.0432
Specific Gravity	g/ml	1.04
Purity	%	≥90%

* These values are not intended to be used as specifications but as suggested characteristics

PACKAGING

The size of the available packages can be checked with Sales Department. SC-1300 is typically supplied in 200kg steel drums.

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ SAFETY DATA SHEET AND CONTAINER LABELS FOR SAFE USE, PHYSICAL, ENVIRONMENTAL, AND HEALTH HAZARD INFORMATION.

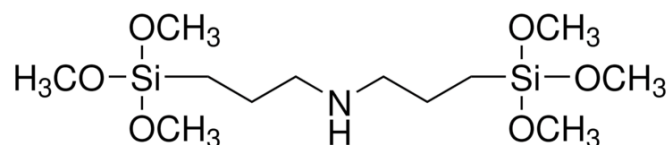
LIMITATIONS: Not intended for human injection. This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

Limited Warranty: Silsource Inc. warrants to Buyer that for a period of 12 months from the date of manufacture of the products, such products will materially conform to Silsource Inc.'s specifications in effect as of the date of manufacture. This warranty does not apply where the products have (a) been subjected to abuse, misuse, neglect, negligence, accident, improper testing, improper installation, improper storage, improper handling, abnormal physical stress, abnormal environmental conditions, or use contrary to any instructions issued by Silsource Inc.; (b) been reconstructed, repaired, or altered by persons other than Silsource Inc. or its authorized representatives; or (c) been used with any third-party product or hardware that has not been previously approved in writing by Silsource Inc. Buyer's exclusive remedy for breach of the limited warranty shall be a refund of the purchase price or replacement of the product, at Silsource Inc.'s sole discretion.

Disclaimer: EXCEPT FOR THE EXPRESS LIMITED WARRANTY SET OUT ABOVE, SILSOURCE INC. MAKES NO WARRANTY WHATSOEVER WITH RESPECT TO THE GOODS, INCLUDING ANY (A) WARRANTY OR CONDITION OF MERCHANTABILITY; (B) WARRANTY OR CONDITION OF FITNESS FOR A PARTICULAR PURPOSE; (C) WARRANTY OR CONDITION OF TITLE; OR (D) WARRANTY AGAINST INFRINGEMENT OF INTELLECTUAL PROPERTY RIGHTS OF A THIRD PARTY, WHETHER EXPRESS OR IMPLIED AND WHETHER ARISING BY LAW, COURSE OF DEALING, COURSE OF PERFORMANCE, USAGE OF TRADE, OR OTHERWISE. BUYER ACKNOWLEDGES THAT IT HAS NOT RELIED UPON ANY REPRESENTATION, CONDITION, OR WARRANTY MADE BY SILSOURCE INC., OR ANY OTHER PERSON ON SILSOURCE INC.'S BEHALF, EXCEPT AS SPECIFICALLY PROVIDED ABOVE.

VERSION: 1 Last updated: 24 April 2024

TECHNICAL DATA SHEET



TYPICAL FEATURES AND APPLICATIONS

Amino bis-silanes such as SC-1118 has been shown to be effective in reacting with epoxy, urethane, melamine, polyimide, phenolic and furan thermosetting resins as well as many thermoplastics, such as polyamides and polyesters. Durable water-resistant bonds are generally achieved when the silyl portion of these aminosilanes are condensed with an inorganic surface and are covalently bonded with the resin matrix of the composite, paint, adhesive or sealant.

INFORMATION FOR USE

Dialkoxysilane structure of SC-1118 have additive excellence that is one of in resin with two silyl groups. This typically yields more durable wet adhesion and more efficient bonding per mole of added silane. The SC-1118 silane as the methoxy ester versions, generally offer a quick cure and or rapid adhesion build. SC-1118 may be considered for similar reactivity with potential savings. These versatile silanes typically can be added directly to polymers during system formulation, or used independently as primers.

SHELF LIFE AND STORAGE

In the unopened original container SC-1118 has a shelf life of one year in a dry and cool place.