

## PRODUCT DATA SHEET

Date: 01.03.2023

# FINOTECH® JS 1184-45

## Addition Cure Potting Silicone Sealant

### Description

FINOTECH® JS 1184 is a two component RTV Silicone designed and tested for the protection of electrical/electronic applications. Well suited for potting of power modules, adaptors, inverters, and sensors.

### Features

- Neutral cure, non-corrosive, resistant to ozone and chemical corrosion
- High thermal conductivity of 0.45 WKm
- Availability of higher thermal conductive JS 1184 up to 1.5 WKm
- Easy to handle mixing ratio of 1:1 / A:B resulting in low viscosity product before curing
- Excellent electrical insulation and weather resistance, good to be used between -45°C and +200°C
- UL 94 V0 certified

### Product Characteristics

Finotech® JS 1184 (23°C, 50% RH)			
Property	Method	Unit	Value
Chemical Base			Two-component Addition Cure Silicone
Color			A: White; B: Black
Viscosity equal for both components	ISO 3219	cps	1500 - 2500
Specific Gravity	After mixing	g/ml	1.3±0.1
Working time	GB/T 7123.1 2005	min	≥ 30
Curing Time		h/25°C	2 - 3
Durometer Hardness	GB/T531.1 -2008	Shore A	40 ± 5
Volume resistivity	IEC 93	Ω.cm	≥1 x 10 <sup>14</sup>
Thermal Conductivity	ASTM D5470-12	(W·m-1·K-1)	0.45

Dielectric strength	IEC 93	kV/mm	>15
Fire resistance, UL	UL94		V-0
Liner CTE	ASTM E831	ppm·K-1/ (20~100°C)	128
Service Temperature Range		°C	-45~200

### Application

**Cleaning:** All surfaces must be clean, dry and dust free. Degrease and wash off any contaminants that could impair adhesion. Suitable solvents include isopropyl alcohol, acetone, or methyl ethyl ketone.

**Limitations:** Check compatibility as certain materials, chemicals, curing agents and plasticizers can inhibit the cure of addition cure Silicones. E.g., organotin, organometallic compounds, sulfur, polysulfides, etc... Technical service of Finotech Switzerland will run and consult compatibility test if requested.

### Packaging

FINOTECH® JS 1184 is available in 10 kg and 25kg pails

### Regular Product Warranty Period = RPW

When stored at or below 30°C in the original and unopened packaging, FINOTECH® JS 1184 has a RPW of 6 months from the date of manufacture. Refer to product packaging for "Manufacturing Date".

### Handling Precautions

Product safety information required for safe use is not included in this document. Before handling, read product and material safety data sheets and container labels for safe use, physical and health hazard information. The material safety data sheet is available on the FINOTECH Website ([www.finotech.ch](http://www.finotech.ch)).



### Health and Environmental

To support Customers in their product safety needs, FINOTECH has an extensive Product Stewardship organization and a team of Product Safety and Regulatory Compliance (PS&RC) specialists available. For further information, please see our website [www.finotech.ch](http://www.finotech.ch) or consult your local FINOTECH representative.

### Limited Warranty

The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this

information should not be used in substitution for customer's tests to ensure that our products are safe, effective, and fully satisfactory for the intended end use. Suggestion of use shall not be taken as inducements to infringe any patent. FINOTECH's product warranty confirms our products will always meet the technical data sheets values for the duration of the granted shelf-life if all advises given by FINOTECH through application, storage and handling guidelines have been followed up correctly. Customers can be asked to protocol and proof that the guidelines were followed. FINOTECH specifically disclaims any other express or implied warranty of fitness for a particular purpose or merchantability others than described in our technical data sheets. FINOTECH's product warranty disclaims liability for any incidental or consequential damages.