



# TG-NSP35 Non-Silicone Thermal Putty

Version 1.270218



## Non-Silicone Thermal Putty

NSP-35 is a one-part, fully cured non-silicone gap filler which has been designed to reduce the time to market and overall cost of ownership for production processes. NSP-35 is provided fully cured, ready for dispensing which gives a significantly simpler design process and allows products to be brought to market with reduced lead-times. This product is also ideally suited for automation and T-Global offers complete turn-key solution to support this. This product provides;

- A low thermal impedance, when compared to traditional gap filler, for a wide range of gaps, which allows a greater degree of design flexibility to be achieved
- Proven reliability under conditions of thermal cycling, shock and vibration
- Deflects easily under low pressures which decreases stress on fragile or delicate components

## Features

Easily dispensable from manual, semi-automatic or fully automatic systems  
 Full turn-key support from T-Global  
 Low thermal impedance  
 High thermal conductivity  
 Ultra-low compression forces  
 High tack on most surfaces and reworkable  
 Proven long term reliability  
 Available in cartridges (30cc, 50cc, 75cc, 180cc, 360cc, 600cc,) and pails (2.1kg, 5kg, 9kg, 25kg, 36kg)

## Applications

Consumer electronics  
 Set-top boxes  
 IP routers  
 ECUs  
 Memory and Power modules

## Properties

- ✓ REACH Compliant
- ✓ ROHS Compliant

Property	TG-NSP35	Unit	Test Method
Colour	Grey	-	Visual
Flow Rate, 30cc syringe with no tip, 2.54mm orifice 621 Kpa,	60	g/min	T-Global
Specific Gravity	3	-	ASTM D792
Typical bond line thickness	0.025	mm	T-Global
Thermal Conductivity	3.5	W/mk	ASTM D5470
Coefficient of Thermal Expansion	150	ppm/K	ASTM E831
Operating Temperature Range	-40 - 200	C	T-Global
Volume resistivity	2.15 x 10 <sup>15</sup>	Ohm-cm	ASTM D257
Flammability Rating	V-0 (pending)	-	UL94
ROHS Compliant	Yes	-	T-Global
D4-10	0	PPM	ASTM E595
Shelf Life	18	months	TG

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## Non-Silicone Thermal Putty

### Standard Packaging

Size	Pot		Weight				
	Cartridges	30cc	50cc	75cc	180cc	360cc	600cc
Pails	2.1kg	5kg	9kg	25kg	36kg	-	

### Installation Guidelines

For full turn-key support, including design, testing, supply and installation of dispensing systems suitable for prototyping to fully automated volume production please contact t-global.

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