

Novagard® 500 Series 500-150 Specification Data



DESCRIPTION

Novagard 500 Series 500-150 is a single-component, neutral-cure, silicone sealant and/or adhesive that provides fire resistance and cures with no corrosive byproducts.

FEATURES & BENEFITS

- Wide range of compatibility
- Single component
- Primerless adhesion:
 - aluminum, polycarbonate, glass, steel
- Non-sag rheology
- Excellent dielectric properties
- Room temperature curing
- Solvent-free formulations
- No corrosive byproducts

APPLICATIONS

Non-corrosive when tested in accordance with Mil Spec A-46146B, 500 Series 500-150 is ideal for applications that require quick cures and early green strength development on electronic components, circuit boards and other sensitive components. As an adhesive, 500 Series 500-150 outperforms slower materials in multi-step assembly applications where early strength is needed. Designed primarily for engineering applications in a wide variety of industries.

INSTALLATION

As with all single component materials, work life and cure times of 500 Series 500-150 is dependent upon environmental conditions such as temperature, humidity, and application thickness. Adhesion should be checked on small samples prior to full scale production.

STORAGE

Novagard 500 Series 500-150 may be stored in the original unopened containers at, or below, 70°F for up to twelve (12) months.

PRECAUTIONS

Consult and obey all applicable local, state, and federal regulations for disposal of solvent and silicone waste. For additional information consult product SDS.

Do not use in or around highly oxidative chemicals such as liquid oxygen, chlorine, or peroxides. Not recommended for surfaces that are to be painted.

PRODUCT SPECIFICATIONS

Physical Property	Test Method	Performance Range
Appearance		Translucent Paste
Extrusion Rate	1/8" orifice; 50 psi	30 gm/minute
Skin Over Time	1/8" @ 50% RH & 77°F	5 – 30 minutes
Through Cure	1/8" @ 50% RH & 77°F	72 hours maximum

TYPICAL PROPERTIES*

Physical Property	Test Method	Typical Value
Specific Gravity		1.00 – 1.05
Tensile Strength	ASTM D412	175 – 225 psi
Elongation	ASTM D412	950 – 1050%
Tear Resistance	ASTM D624	12 – 20 pli
Shore Hardness	ASTM D2240	18 ± 5
Dielectric Strength	ASTM D149	447 v/mil
Dielectric Constant (100 Hz/1 KHz)	ASTM D150	3.57/3.55
Dissipation Factor (100 Hz/1 KHz)	ASTM D150	0.0033/0.0031
Volume Resistivity	ASTM D257	1.47 x 10 ¹² ohm-cm
Operating Temperature		-40°C – 200°C
Adhesion		
Glass	ASTM D910	12 – 15 pli
Aluminum		12 – 15 pli
Polycarbonate		12 – 15 pli

*The values outlined reflect testing that was conducted under laboratory conditions, actual results may vary. The information provided in the above table is not intended for use in preparing specifications. Please consult manufacturer for additional information.

ADDITIONAL INFORMATION

Novagard believes that the information provided is a true and accurate description of the typical characteristics of the aforementioned product, however, it is the responsibility of the individual user to thoroughly test the product in their specific application to determine performance, efficacy, and safety.