

Novagard® 600 Series 600-205 Silicone Gel Specification Data



DESCRIPTION

Novagard 600 Series 600-205 is a unique addition-cure silicone gel for potting and encapsulation. Once mixed at the proper ratio, this 1:1 non-corrosive, two-component silicone compound will cure into solid rubber.

FEATURES & BENEFITS

- Exceptionally fast cure
- Convenient mix 1:1 ratio
- Controlled rheology
- Solvent free formulation
- No corrosive by-products

INSTRUCTIONS

This material is shipped in separate containers that are labeled Part A and Part B. While the material may be mixed by hand, it is more appropriate to use automated, meter-mixing equipment. The compounds are designed with a 1:1 volume-to-volume mix ratio. Automated mixing equipment eliminates the need for a deaeration cycle. If mixing by hand, weigh 100 parts of Part A into an appropriately sized mixing vessel; add 100 parts of Part B and mix thoroughly. Vacuum de-gas.

STORAGE

It is recommended that Novagard 600 Series 600-205 silicone gel be stored in the original unopened containers at, or below, 77°F (25°C) for up to six months.

AVAILABILITY

Consult your Novagard sales representative for packaging options and volume requirements.

PRECAUTIONS

Consult and obey all applicable local, state, and federal regulations for the disposal of solvent and silicone waste. For additional information consult product S.D.S. Certain materials, chemicals, curing agents, and plasticizers may inhibit the cure. The most notable are organo-tin catalysts, polysulfide, and other sulfur-containing materials.

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.

BEFORE CURE

Physical Property	Test Method	Performance Range
Appearance		Clear Fluid
Specific Gravity	ASTM D1875	0.95 – 1.05
Viscosity Part A Part B	Brookfield #3 @ 20 rpm	3,000 – 5,000 cPs 3,000 – 5,000 cPs
Penetrometer	70-L0-PenUnw	4.0 – 5.0 mm
Mix Ratio	Base: Cure (By Volume)	1:1
Working Time	Mixed, 77°F (25°C)	3 – 5 minutes

AFTER CURE

Physical Property	Test Method	Typical Value
Service Temperature		-40°F to 400°F (-40°C to 204°C)

*The values outlined reflect testing that was conducted under laboratory conditions, actual results may vary. Results are after heat cure plus 3 days at 77°F (25°C)/50%.

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.