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Norland Optical Adhesive NOA 86H, 1 oz. Application Bottle

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1 oz. Application Bottle of NOA

Stock **#12-848** CONTACT US

- 1 + A$144.80

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Volume Pricing	
Qty 1-4	**A$144.80** each
Qty 5-11	**A$130.40** each
Qty 12+	**A$124.00** each
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General

Size (oz):
1

Norland Number:
86H

Shelf Life:
4 months

Type:

Bottle

Typical Applications:
Meets Bellcore specification of 85C/85RH for bonding glass. USP Class IV approved for medical applications. Cured with UV, visible light and/or heat.

Note:
Heat curing (-H suffix) adhesives are oxygen inhibited. If used on the surface of a substrate, the adhesive will need to be cured under an inert atmosphere (like nitrogen) to fully cure.
Liquid adhesives cannot be put in a vacuum because it will remove the stabilizers and sensitizers causing the adhesive to not cure properly.
This adhesive should be refrigerated between 5 - 10°C when stored to maintain its optical properties.

Optical Properties

Index of Refraction (n_d):
1.55 @ 589nm

Absorption Range (nm):
315 - 420

Material Properties

Glass Bonding:
Excellent

Metal Bonding:
Good

Plastic Bonding:
Excellent/Good

Viscosity (cps):
250 - 350

Bonding Type:
Glass to Glass/Plastic

Energy for Full Cure (J/cm^2):
2.5

Environmental & Durability Factors

Durability:
Hard

Regulatory Compliance

RoHS 2015:
Compliant

Certificate of Conformance:
View

Reach 251:
Compliant

Product Details

- Excellent Optical Qualities
- Adhesives for Glass, Metal, and Plastic Bonding
- Cure Quickly when Exposed to UV Light
- **Preloaded Norland Optical Adhesive Syringes** Also Available

Norland Optical Adhesives are clear, solvent-free optical adhesives designed to fully cure in only minutes when exposed to ultraviolet light. These adhesives are used in precision alignment or positioning applications that require a robust and resilient bond. Norland Optical Adhesives feature a variety of bonding types, including but not limited to glass to glass, glass to glass/metal, and plastic to plastic/glass. To use Norland Optical Adhesives, apply the adhesive to the optical surface, position the components, and use a **UV light source** to set the components in place. Since the adhesive will not cure until exposed to UV light, time can be taken during the positioning process to perfect product alignment.

Technical Information

NORLAND OPTICAL ADHESIVES (NOA) APPLICATION NOTES	
Title	Description
Applying Adhesive	Covers best practices to use when applying Norland Optical Adhesives to ensure an even adhesive layer while avoiding air bubbles.
Chemical Resistance of NOA	Covers the effects of various chemicals on Norland Optical Adhesives including acids, bases, and solvents.
Preventing Lens Separations with NOA	Covers best practices to avoid adhesive failures when bonding optical elements.
Separating Lenses Bonded with NOA	Covers how to unbond optical elements bonded with Norland Optical Adhesives.