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# Norland Optical Adhesive NOA 83H, 1 oz. Application Bottle

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Norland Optical Adhesive NOA83H, 1 oz Application Bottle

Stock **#55-583** **20+ In Stock**

⊖ 1 ⊕ €90<sup>50</sup>

**ADD TO CART**

Volume Pricing	
Qty 1-4	€90,50 each
Qty 5-11	€81,50 each
Qty 12+	€77,50 each
Need More?	<a href="#">Request Quote</a>

ⓘ Prices shown are exclusive of VAT/local taxes

## Product Downloads

General	
1	Size (oz):
83H	Norland Number:
4 months	Shelf Life:

Bottle **Type:**

**Typical Applications:**  
Extra fast curing adhesive. Cures in infrared and standard convection ovens.

**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.

### Optical Properties

**Index of Refraction ( $n_d$ ):**  
1.56 @ 589nm

**Absorption Range (nm):**  
320 - 380

### Material Properties

**Glass Bonding:**  
Excellent

**Metal Bonding:**  
Excellent

**Plastic Bonding:**  
Fair

**Viscosity (cps):**  
250

**Bonding Type:**  
Glass to Glass/Metal

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

### Environmental & Durability Factors

**Durability:**  
Hard, Resilient

### 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
<a href="#">Applying Adhesive</a>	Covers best practices to use when applying Norland Optical Adhesives to ensure an even adhesive layer while avoiding air bubbles.
<a href="#">Chemical Resistance of NOA</a>	Covers the effects of various chemicals on Norland Optical Adhesives including acids, bases, and solvents.
<a href="#">Preventing Lens Separations with NOA</a>	Covers best practices to avoid adhesive failures when bonding optical elements.
<a href="#">Separating Lenses Bonded with NOA</a>	Covers how to unbond optical elements bonded with Norland Optical Adhesives.