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# Preloaded Norland Optical Adhesive NOA 89H Dispensing Barrel (3cc)

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3cc Dispensing Barrel for NOA (NOA 60 shown as an example)

Stock #17-393 **2 In Stock**

⊖ 1 ⊕ €27<sup>50</sup>

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Volume Pricing	
Qty 1-4	€27,50 each
Qty 5-11	€24,80 each
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**i** Prices shown are exclusive of VAT/local taxes

## Product Downloads

## General

0.1 **Size (oz):**

89H **Norland Number:**

4 months **Shelf Life:**

**Type:**

Barrel

Bonding glass to glass **Typical Applications:**

**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.

### Optical Properties

1.51 **Index of Refraction ( $n_d$ ):**

310 - 395 **Absorption Range (nm):**

### Material Properties

Excellent **Glass Bonding:**

Good **Metal Bonding:**

Fair **Plastic Bonding:**

15 - 20 **Viscosity (cps):**

Glass to Glass **Bonding Type:**

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

### Environmental & Durability Factors

Soft **Durability:**

### Regulatory Compliance

**Compliant** **RoHS 2015:**

**View** **Certificate of Conformance:**

**Compliant** **Reach 251:**

## Product Details

- Dispensing Syringes Preloaded with 2 or 10g of Adhesive
- Adhesives for Glass, Metal, and Plastic Bonding
- Require a Dispensing Unit & Dispenser Tips for Use
- [Applicator and Bulk Bottles](#) of Norland Adhesive Also Available

Preloaded Norland Optical Adhesive Syringes are pneumatic dispensing syringes preloaded with either 2g or 10g of Norland Optical Adhesive. Norland Optical Adhesives are one-part, UV curing adhesives that are used for glass, metal, and plastic bonding. A range of adhesives are available to meet specific application requirements such as ML-A-3920 for defense applications, low outgassing for aerospace applications, or UV transmission for UV optical applications. Preloaded Norland Optical Adhesive Syringes require a [dispensing unit](#) and [dispensing tips](#) for use and are ideal for applications requiring precise control of the amount of applied adhesive. Applicators and Bulk Bottles of Norland Adhesive are also available.

## 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.

