### FEATURES

**QUANTIFIABLE DEGREE OF CURE OF LIGHT CURE ADHESIVES**
- Confirm cure
- Reduce in-process QC testing
- Reduce scrapped parts and resources
- Increase production speeds

**ASSURECURE™ SMALL SYSTEM SIZE**
- Easy fit into existing production lines
- Minimal space required

**CONNECTION TO EXISTING PLC’s**
- Allows for go/no-go decision
- Data recording

**ISO® 10993 BIOCOMPATIBLE ADHESIVES**
- Suitable for disposable medical device assembly

**FLUORESCENT IN UNECURED AND CURED STATE**
- Confirmation of adhesive presence and location on parts

### BENEFITS

- Easy fit into existing production lines
- Minimal space required
- Allows for go/no-go decision
- Data recording

### TYPICAL APPLICATIONS

**MEDICAL DEVICES**

**ELECTRONIC COMPONENTS**

**AUDIOVISUAL COMPONENTS**

**OPTICAL DEVICES**

### ADHESIVES & EQUIPMENT

**Adhesives:**
AssureCure™ light cure adhesives can be provided in a range of viscosities, physical properties and package configurations. Visit www.AssureCure.com to learn more about available adhesives.

**Equipment:**
The Loctite® AssureCure™ Monitoring System is designed to detect, measure, analyze, record and provide a degree of cure metric relative to the transition of specially formulated adhesives from a liquid to a solid (cured).

The AssureCure™ system includes the following components:

<table>
<thead>
<tr>
<th>System Component</th>
<th>Function Description</th>
<th>Part Number</th>
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<tbody>
<tr>
<td>Interface Module with LDI</td>
<td>Measures, analyzes and records degree of cure in real-time</td>
<td>1470727</td>
</tr>
<tr>
<td>Light Source/Fiber</td>
<td>Transmits light to adhesive bond line (up to 4 points)</td>
<td>1470724, 1470728, 1470729, 1470730</td>
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<tr>
<td>Metallic Fiber</td>
<td>Emitted adhesive optical parameters to lens, camera</td>
<td>1470791</td>
</tr>
<tr>
<td>Optic Processor</td>
<td>Analyzes multiple optical parameters and provides output to PLC</td>
<td>1470792</td>
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### U.S.A.

**Henkel Corporation Engineering Adhesives**
1.888.LOCTITE (562.8483)
www.AssureCure.com

### Canada

**Henkel Canada Corporation Engineering Adhesives**
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Tel: 905.814.6511
Fax: 905.814.5391

Visit www.AssureCure.com to learn more about available adhesives.
Light cure adhesive technology was introduced more than 20 years ago and has gained use in a wide range of assembly and coating applications. Although significant improvements have been introduced over this time, such as faster cure times, lower light intensity requirements and enhanced physical and chemical resistance characteristics, the ability to verify the degree of cure has been the greatest challenge.

Introducing Loctite® AssureCure™ technology...

The AssureCure™ system includes:

- INTERFACE MODULE/ LIGHT SOURCE: Illuminates the adhesive’s bond line. Light must reach the bond line directly or through light transmissible materials.
- DETECTION SYSTEM: Optically measures the adhesive’s response, which changes during the polymerization process. One to four points possible.
- SOFTWARE: Analyzes data and provides a quantifiable output directly related to the progress of the curing reaction. Output signal to user-supplied PC or PLC can be configured to yield a go/no-go status or a numerical value directly related to the level of cure achieved.

The data from the AssureCure™ system has been compared directly to proven off-line methods to confirm when an adhesive has cured, including physical and analytical testing. The comparative results show exceptional correlation between the AssureCure™ output and pull strength testing, as well as with infrared analysis of the adhesive.

When CONFIDENCE in CURE is CRITICAL

TECHNOLOGY OVERVIEW

Loctite® AssureCure™ is a revolutionary technology that combines adhesive, a detection system and software to provide a quantifiable confirmation of cure level for light cure acrylic adhesives. The operation is easily integrated into existing production lines immediately following the light curing system.

Comparison to Other Cure Detection Methods:

Compared with alternative cure detection methods, the AssureCure™ system provides the only reliable in-line, non-destructive method to confirm the adhesive is cured.