Section One    Company Profile
  • Mission Statement
  • Core Competencies

Section Two    Advancement in UV Technology
  • Wide Offerings & Specialty Chemicals
  • UV curing Equipment, Measurement & Control
  • Matching Chemistry

Section Three   The Incure Experience
  • IncureDirect™
  • IncureConsult™
  • IncureCollaborate™
  • IncureLab™
  • IncureRental™ Program
Section One  Company Profile

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Section Three  The Incure Experience

- IncureDirect™
- IncureConsult™
- IncureCollaborate™
- IncureLab™
- IncureRental™ Program
Incure, Inc

1 Hartford Square, Box 16 West, Suite C-3
New Britain, CT 06052, USA
Tel: (860) 748-2979
email: support@uv-incure.com

Incure Adhesives Manufacturing Pte Ltd
33 Ubi Avenue 3 #04-23 Vertex Tower B
Singapore 408868
Tel: (65) 6270-2188
email: support@incurelab.com
Mission Statement

We listen to you, deliberate and understand your needs before making every attempt to solve your application needs. Chemistry-match the right material, equipment and process to your application matters to us and gives us our sense of achievement.

We are a research company committed to the development of advanced UV technologies for bonding, coating and sealing solutions.

We are committed to produce the highest quality and service for our clients and to dedicate ourselves to integrity, honesty, fairness and responsibility.
Core Competencies

- More than **50 years** of combined experience in the formulation of advanced UV/visible light curing adhesives. Team of **certified** application consultants and **experienced** applications development engineers to support end-users, partners and distribution networks.

- **Wide selection** of products available for Medical, optical, electronics, automotive, jewelry, aerospace, construction and industrial use. Specific applications - bonding, coating, encapsulating, gasketing, sealing and masking.

- **Matching-Chemistry™**
  A practical and professional approach to successful implementation of UV curing in terms of cost, efficiency and quality excellence and environmental consciousness. Adhesive selection, Curing equipment, Dispensing and Curing processes, Maintenance and Control are all instrumental in designing a robust solution to complicated/unique applications.
Section One  Company Profile

• Mission Statement
• Core Competencies

Section Two  Advancement in UV Technology

• Wide Offerings & Specialty Chemicals
• UV curing Equipment, Measurement & Control
• Matching Chemistry

Section Three  The Incure Experience

• IncureDirect™
• IncureConsult™
• IncureCollaborate™
• IncureLab™
• IncureRental™ Program
Advancement in UV Technology

1. Rapid fixture and full cure in seconds
2. Tack-free time
3. Choice of sleek, tack-free or tacky surface
4. Ease of shipment (Non-DG) & storage (room temperature)
5. Cost savings (energy, process time, space, manpower)
6. In-line inspection, fluorescing and color-change capabilities
7. Cure-On-Demand facilitates alignment positioning
8. 100% solids, solvent-free, no volatiles
9. Viscosity variation (25 - 2,000,000 cP)
10. Tensile: Up to 12,000 psi (substrates failure for plastics)
11. Elongation: Up to 1,500%
12. Hardness Range: A5 to D95
13. Quad-Cure™ for 4 different cure methods
14. Multi-Substrates for bonding dissimilar substrates (metals, plastics etc)
15. Low surface energy (30 - 36 dynes) material (thermoplastic elastomers (TPE) bonding
Wide Offering of Bonders, Sealants and Coating Materials

Incure manufacture and offer a wide range of medical grade (compliant to ISO 10993-5) and industrial grade (UL & RoHS compliant) adhesives, epoxies, encapsulates, masks and coatings

- BlueBond™ Low-energy UV cure bonders
- Cast-Max™ Stereolithography Adhesive (SLA) 3D Resins
- Cyro-Weld™ Medical Grade UV/Visible Light Curing Adhesives & Cyanoacrylates
- Encap™ Encapsulant for electronics assemblies
- Epo-Weld™ Single Component & Two-Part Epoxies
- LiteMask™ UV Masks - Acrylic Urethanes Ultra-clean, Temporary/Permanent Masks
- Optik™ UV/Visible Light Curing Optical Adhesives
- Pyra-Sil™ UV and UV/Moisture Dual-cure Silicones
- UHTE™ Ultra-High Temperature Epoxies
- Ultra-Illumina™ Dual-Cure Conformal Coatings
- Uni-Seal™ Form-In-Place Gaskets (FIPG) and Sealants
<table>
<thead>
<tr>
<th>Specialty Chemicals</th>
</tr>
</thead>
</table>

### Cyro-Weld™ 5000 Medical Series

<table>
<thead>
<tr>
<th>Flag-Ship Products</th>
<th>Cyro-Weld™ 5004</th>
<th>Cyro-Weld™ 5004F</th>
<th>Cyro-Weld™ 5005</th>
<th>Cyro-Weld™ 5013F</th>
<th>Cyro-Weld™ 5017</th>
<th>Cyro-Weld™ 5020</th>
<th>Cyro-Weld™ 5020F</th>
<th>Cyro-Weld™ 5021F</th>
<th>Cyro-Weld™ 5040</th>
</tr>
</thead>
</table>

#### Web Highlights
- High Performance Plastics
- High Performance Plastics
- High Strength Plastics
- High Strength Plastics
- Multi-Substrates (High Strength Plastics)
- Multi-Substrates (Multi-Substrates)
- Multi-Substrates (High Strength Plastics)
- Multi-Substrates (High Strength Plastics)
- Multi-Substrates (Polymer Blends)

#### Type of Binder
- U/V/Visible: EDC Curable, High-Strength, Low-Shrink Medical Binder
- U/V/Visible: EDC Curable, High-Strength, Low-Shrink Medical Binder
- U/V/Visible: EDC Curable, High-Strength, Low-Shrink Medical Binder
- U/V/Visible: EDC Curable, High-Strength, Low-Shrink Medical Binder
- U/V/Visible: EDC Curable, Multi-Substrate, Low-Shrink Medical Binder
- U/V/Visible: EDC Curable, Multi-Substrate, Low-Shrink Medical Binder
- U/V/Visible: EDC Curable, Multi-Substrate, Low-Shrink Medical Binder
- U/V/Visible: EDC Curable, Multi-Substrate, Low-Shrink Medical Binder
- U/V/Visible: EDC Curable, Multi-Substrate, Low-Shrink Medical Binder
- U/V/Visible: EDC Curable, Multi-Substrate, Low-Shrink Medical Binder

#### Type of Cure - Product Title
- Cyro-Weld™ 5000 Medical Series
- Cyro-Weld™ 5000 Medical Series
- Cyro-Weld™ 5000 Medical Series
- Cyro-Weld™ 5000 Medical Series
- Cyro-Weld™ 5000 Medical Series
- Cyro-Weld™ 5000 Medical Series
- Cyro-Weld™ 5000 Medical Series
- Cyro-Weld™ 5000 Medical Series
- Cyro-Weld™ 5000 Medical Series
- Cyro-Weld™ 5000 Medical Series

#### Competitive Products
- Dymax 101-M, Targel 7561
- Dymax 101-M, Targel 7561
- Dymax 7069-V
- Dymax 2076-V
- Dymax 101-MSK
- Dymax 101-MSK
- Dymax 101-MSK
- Dymax 18024
- Dymax 18024
- Dymax 18024

### Surface After Full Cure NIST D198
- Tack-Free
- Tack-Free
- PSA-Test
- PSA-Test
- Tack-Free
- Tack-Free
- Tack-Free
- Tack-Free
- Tack-Free
- Tack-Free

### Glass Pick-up Time
- 6s / 6s
- 3s / 3s
- 6s / 6s
- 6s / 6s
- 6s / 6s
- 6s / 6s
- 6s / 6s
- 6s / 6s
- 6s / 6s
- 6s / 6s

### Color / Appearance
- Single Component Slight Yellow Tint
- Single Component Slight Yellow Tint
- Single Component, Clear
- Single Component Slight Yellow Tint
- Single Component, Clear
- Single Component Slight Yellow Tint
- Single Component, Clear
- Single Component Slight Yellow Tint
- Single Component, Clear
- Single Component Slight Yellow Tint

### Viscosity, High Shear ASTM D5589
- 1.50 ± 0.50
- 1.20 ± 0.20
- 1.20 ± 0.20
- 1.20 ± 0.20
- 1.20 ± 0.20
- 1.20 ± 0.20
- 1.20 ± 0.20
- 1.20 ± 0.20
- 1.20 ± 0.20
- 1.20 ± 0.20

### Shore Hardness ASTM D2240
- 80 ± 30
- 80 ± 30
- 80 ± 30
- 80 ± 30
- 80 ± 30
- 80 ± 30
- 80 ± 30
- 80 ± 30
- 80 ± 30
- 80 ± 30

### Linear Shrinkage NIST D1564
- 0.40 ± 0.10
- 0.40 ± 0.10
- 0.40 ± 0.10
- 0.40 ± 0.10
- 0.40 ± 0.10
- 0.40 ± 0.10
- 0.40 ± 0.10
- 0.40 ± 0.10
- 0.40 ± 0.10
- 0.40 ± 0.10

#### Air Absorption ASTM D570
- 1.20 ± 0.20
- 1.20 ± 0.20
- 1.20 ± 0.20
- 1.20 ± 0.20
- 1.20 ± 0.20
- 1.20 ± 0.20
- 1.20 ± 0.20
- 1.20 ± 0.20
- 1.20 ± 0.20
- 1.20 ± 0.20

### Tensile Strength (15%) ASTM D1708
- 80 ± 30
- 80 ± 30
- 80 ± 30
- 80 ± 30
- 80 ± 30
- 80 ± 30
- 80 ± 30
- 80 ± 30
- 80 ± 30
- 80 ± 30

### Erosion at Break ASTM D1838
- 92 ± 30
- 92 ± 30
- 92 ± 30
- 92 ± 30
- 92 ± 30
- 92 ± 30
- 92 ± 30
- 92 ± 30
- 92 ± 30
- 92 ± 30

### Temp. Resistance NIST D586
- 80 ± 10
- 80 ± 10
- 80 ± 10
- 80 ± 10
- 80 ± 10
- 80 ± 10
- 80 ± 10
- 80 ± 10
- 80 ± 10
- 80 ± 10

### Young's Modulus ASTM D586
- 100 ± 30
- 100 ± 30
- 100 ± 30
- 100 ± 30
- 100 ± 30
- 100 ± 30
- 100 ± 30
- 100 ± 30
- 100 ± 30
- 100 ± 30

### Glass Transition Tg of ASTM D586
- N.A.
- N.A.
- N.A.
- N.A.
- N.A.
- N.A.
- N.A.
- N.A.
- N.A.
- N.A.

### Average Linear CTE of ASTM D586
- 56 ± 8
- 56 ± 8
- 56 ± 8
- 56 ± 8
- 56 ± 8
- 56 ± 8
- 56 ± 8
- 56 ± 8
- 56 ± 8
- 56 ± 8

### Product Highlights (Functional/Spacial)
- Ultrafast curing, medium viscosity, very high strength medical binder for respiratory masks/catheter/sterilization systems/orcatheter/sterilization/ammonia treatment.
- Ultrafast curing, medium viscosity, very high strength medical binder for respiratory masks/catheter/sterilization systems/orcatheter/sterilization/ammonia treatment.
- Ultrafast curing, medium viscosity, very high strength medical binder for respiratory masks/catheter/sterilization systems/orcatheter/sterilization/ammonia treatment.
- Ultrafast curing, medium viscosity, very high strength medical binder for respiratory masks/catheter/sterilization systems/orcatheter/sterilization/ammonia treatment.
- Medical-grade, very low viscosity, multi-substrate low shrinkage medical binder for respiratory face masks and medical dressing.  Bonded to plastic, glass and metals, enabling multi-layer systems/hydrophilic medical binder for respiratory face masks and medical dressing.  Bonded to plastic, glass and metals, enabling multi-layer systems/hydrophilic medical binder for respiratory face masks and medical dressing.  Bonded to plastic, glass and metals, enabling multi-layer systems/hydrophilic medical binder for respiratory face masks and medical dressing.  Bonded to plastic, glass and metals, enabling multi-layer systems/hydrophilic medical binder for respiratory face masks and medical dressing.  Bonded to plastic, glass and metals, enabling multi-layer systems/hydrophilic medical binder for respiratory face masks and medical dressing.  Bonded to plastic, glass and metals, enabling multi-layer systems/hydrophilic medical binder for respiratory face masks and medical dressing.  Bonded to plastic, glass and metals, enabling multi-layer systems/hydrophilic medical binder for respiratory face masks and medical dressing.  Bonded to plastic, glass and metals, enabling multi-layer systems/hydrophilic medical binder for respiratory face masks and medical dressing.  Bonded to plastic, glass and metals, enabling multi-layer systems/hydrophilic medical binder for respiratory face masks and medical dressing.  Bonded to plastic, glass and metals, enabling multi-layer systems/hydrophilic medical binder for respiratory face masks and medical dressing.
## Section Two

### Advancement in UV Technology

### Specialty Chemicals

---

### Litemask™ Mask & Gasket Series

<table>
<thead>
<tr>
<th>Flag-Ship Products</th>
<th>Litemask™ 4139VT</th>
<th>Litemask™ 4139G</th>
<th>Litemask™ 4153</th>
<th>Litemask™ 4201</th>
<th>Litemask™ 4272</th>
<th>Litemask™ 8108</th>
<th>Litemask™ 8114</th>
<th>Litemask™ 8114T</th>
<th>Litemask™ 8114VT</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Web Highlights</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Type of Binder</td>
<td>High Performance Metal/ Glass/Ceramics</td>
<td>High Performance Metal/ Glass/Ceramics</td>
<td>High Performance Metal/ Glass/Ceramics</td>
<td>High Performance Metal/ Glass/Ceramics</td>
<td>High Performance Metal/ Glass/Ceramics</td>
<td>Low Strength Multi- Substrates</td>
<td>Preable</td>
<td>Preable</td>
<td>Preable</td>
</tr>
<tr>
<td>Competitive Products (Note: optimization of certain properties, please consult with our sales team for more information)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Basic In-flow Cure Surface using Radiation Curing using UV/LED/LED Curing</td>
<td>Tack-Free</td>
<td>Tack-Free</td>
<td>Tack-Free</td>
<td>Tack-Free</td>
<td>Tack-Free</td>
<td>Tack-Free</td>
<td>Tack-Free</td>
<td>Tack-Free</td>
<td>Tack-Free</td>
</tr>
</tbody>
</table>

### Table Details

- **Color & Appearance**: Single Component, Clear
- **Viscosity (cP) from ASTM D5356**: 10,000 - 20,000
- **Where Hardness ASTM D2240**: 90 - 95
- **Linear Shrinkage ASTM D566**: 0.5%
- **Water Absorption ASTM D566**: 0.5%
- **Tensile Strength (PSI)**: ASTM D6514
  - **ASTM D6514 - Laminates (lbs)**
    - **PC-0**: 1,000
    - **PC-65**: 11,000
    - **PC-86**: 16,000
    - **PC-AL**: 9,000
  - **Tensile Strength (PSI) - Laminates (lbs)**
    - **650**: 650
    - **860**: 860
    - **AL**: 900

### Other Important Details

- **Elongation at Break (ASTM D503)**: 55%
- **Impact Resistance (ASTM D256)**: 10 ft-lb
- **Young's Modulus (ASTM D298)**: 100,000
- **Glass Transition Temperature (ASTM D585)**: 100°C
- **Average Linear CTE (ASTM D585)**: 10°C

### Product Highlights (Functions/Specialties)

- **Cures with UV/Vis/LED / Arc or ArcSafe**: Very good adhesion to metals and glass. Used in aerospace industry for consumer protection of turbine blades against chemicals during cleaning.
- **Cures with UV/Vis/LED / Arc or ArcSafe**: Very good adhesion to metals and glass. Used in aerospace industry for consumer protection of turbine blades against chemicals during cleaning.
- **Laminates**: High strength metal/glass composite for protection of aerospace applications. Resistant to high-temperature, high-pressure environments. Good temperature and moisture resistance.
- **Laminates**: High strength metal/glass composite for protection of aerospace applications. Resistant to high-temperature, high-pressure environments. Good temperature and moisture resistance.
- **Laminates**: High strength metal/glass composite for protection of aerospace applications. Resistant to high-temperature, high-pressure environments. Good temperature and moisture resistance.

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**Listen • Understand • Solve**
### Optik™ Optical Series

<table>
<thead>
<tr>
<th>Flag-Ship Products</th>
<th>Optik™</th>
<th>Optik™</th>
<th>Optik™</th>
<th>Optik™</th>
<th>Optik™</th>
<th>Optik™</th>
<th>Optik™</th>
<th>Optik™</th>
<th>Optik™</th>
</tr>
</thead>
<tbody>
<tr>
<td>Web Highlights</td>
<td>7313</td>
<td>7646</td>
<td>7664</td>
<td>7675</td>
<td>7722</td>
<td>7731</td>
<td>7760</td>
<td>7763</td>
<td>7795</td>
</tr>
</tbody>
</table>

#### Type of Binder
- Multi-Substrate Low Strength Plastic
- High Strength Metal/ Glass Optical Binder
- High Performance Metal/ Glass Optical Binder
- Multi-Substrate (Low Strength) Ceramic
- High Strength Metal/ Glass Ceramic
- High Performance Metal/ Glass Ceramic
- UV/Vapor LED Curable High-Strength Metal Glass Optimal Binder
- UV/Vapor LED Curable High-Strength Metal Glass Optimal Binder
- UV/Vapor LED Curable High-Strength Metal Glass Optimal Binder
- UV/Vapor LED Curable High-Strength Metal Glass Optimal Binder

#### Specialty Chemicals

**Section Two**

Advancement in UV Technology


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*Listen • Understand • Solve*
# Quad-Cure™ Series

## Section Two

### Advancement in UV Technology

#### Specialty Chemicals

<table>
<thead>
<tr>
<th>Flag-Ship Products</th>
<th>Quad-Cure™</th>
<th>Quad-Cure™</th>
<th>Quad-Cure™</th>
<th>Quad-Cure™</th>
<th>Quad-Cure™</th>
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<th>Quad-Cure™</th>
<th>Quad-Cure™</th>
<th>Quad-Cure™</th>
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</thead>
<tbody>
<tr>
<td>Web Highlights</td>
<td>8053</td>
<td>8118</td>
<td>9218</td>
<td>9245</td>
<td>9254</td>
<td>9255G</td>
<td>9263</td>
<td>9273</td>
<td>9933</td>
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<tr>
<td>Type of Binder</td>
<td>High Performance Metal/ Glass/Ceramics</td>
<td>High Performance Metal/ Glass/Ceramics</td>
<td>High Performance Metal/ Glass/Ceramics</td>
<td>High Performance Metal/ Glass/Ceramics</td>
<td>High Performance Metal/ Glass/Ceramics</td>
<td>High Performance Metal/ Glass/Ceramics</td>
<td>High Performance Metal/ Glass/Ceramics</td>
<td>High Performance Metal/ Glass/Ceramics</td>
<td>High Performance Metal/ Glass/Ceramics</td>
</tr>
<tr>
<td>Type of Cure - Product Title</td>
<td>UV/Visible/Heat Curable Super Low Shrink Metal Glass Binder</td>
<td>UV/Visible/Heat/Activator Curable Rapid Cure Non-Shrink Binder</td>
<td>UV/Visible/Heat/Activator Curable Flexible Metal Glass Binder</td>
<td>UV/Visible/Heat/Activator Curable Flexible Metal Glass Binder</td>
<td>UV/Visible/Heat/Activator Curable Flexible Metal Glass Binder</td>
<td>Multi-cure, Ultra Low Shrinkage Precision on Planting/Border</td>
<td>UV/Visible/Heat/Activator Curable Flexible Metal Glass Binder</td>
<td>UV/Visible/Heat/Activator Curable Flexible Metal Glass Binder</td>
<td>Multi-cure, High Performance, Moisture Resistant Metal Glass Binder</td>
</tr>
<tr>
<td>Competitive Products</td>
<td>New</td>
<td>MB-6000UV</td>
<td>Dimax 625</td>
<td>Tangent 8014</td>
<td>-</td>
<td>3072 (D9-12-23P)</td>
<td>-</td>
<td>Vinyl 8128</td>
<td>Dimax 625</td>
</tr>
<tr>
<td>Surface Finish Full Cure REST (US)</td>
<td>S/BR</td>
<td>Back-Free</td>
<td>PSA Peel</td>
<td>PSA Peel</td>
<td>PSA Peel</td>
<td>PSA Peel</td>
<td>Silox</td>
<td>PSA Peel</td>
<td>PSA Peel</td>
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<tr>
<td>tack-Free Full Cure Surface using UV/Visible/Heat/Activator</td>
<td>15a / 10a</td>
<td>14 / 10a</td>
<td>10a / 3a</td>
<td>24a / 24a</td>
<td>12a / 12a</td>
<td>40a / 50a</td>
<td>40a / 30a</td>
<td>16a / 16a</td>
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<tr>
<td>Glass Fixture Time (max)</td>
<td>2s</td>
<td>7s</td>
<td>2s</td>
<td>7s</td>
<td>2s</td>
<td>6s</td>
<td>6s</td>
<td>5s</td>
<td></td>
</tr>
<tr>
<td>Viscosity @25⁰C ASTM D3185</td>
<td>900 – 1,500</td>
<td>5.000 – 9.000</td>
<td>16.000 – 26.000</td>
<td>2,500 – 4,900</td>
<td>1,300 – 2,500</td>
<td>&gt; 1,000,000</td>
<td>500 – 1,000</td>
<td>700 – 1,200</td>
<td>400 – 800</td>
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<tr>
<td>Shear Hardness ASTM D2980</td>
<td>D90 to D89</td>
<td>D99 to D99</td>
<td>D99 to D99</td>
<td>D99 to D99</td>
<td>D99 to D99</td>
<td>D99 to D99</td>
<td>D99 to D99</td>
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<tr>
<td>Linear Stretches ASTM D661</td>
<td>0.0010</td>
<td>0.0010</td>
<td>0.0010</td>
<td>0.0010</td>
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<tr>
<td>Water Absorption ASTM D570</td>
<td>0.20%</td>
<td>0.20%</td>
<td>0.20%</td>
<td>0.20%</td>
<td>0.20%</td>
<td>0.20%</td>
<td>0.20%</td>
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<tr>
<td>Tensile Strength (PSI) ASTM D503</td>
<td>PC-5C</td>
<td>PC-5R</td>
<td>PC-5R</td>
<td>PC-5R</td>
<td>PC-5R</td>
<td>PC-5R</td>
<td>PC-5R</td>
<td>PC-5R</td>
<td>PC-5R</td>
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<tr>
<td>Elongation at Break ASTM D503</td>
<td>17%</td>
<td>35%</td>
<td>44%</td>
<td>44%</td>
<td>44%</td>
<td>44%</td>
<td>44%</td>
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<td>Temp. Resistance ASTM D906</td>
<td>65 to 150</td>
<td>65 to 150</td>
<td>65 to 150</td>
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<td>65 to 150</td>
<td>65 to 150</td>
<td>65 to 150</td>
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<tr>
<td>Young’s Modulus ASTM D3628</td>
<td>490</td>
<td>676</td>
<td>676</td>
<td>676</td>
<td>676</td>
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<tr>
<td>Glass Transition Tg (ºC) ASTM D502</td>
<td>7</td>
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<td>7</td>
<td>7</td>
<td>7</td>
<td>7</td>
<td>Not Available</td>
<td>133</td>
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<tr>
<td>Average Linear CTE ASTM D366</td>
<td>34</td>
<td>81</td>
<td>81</td>
<td>81</td>
<td>81</td>
<td>7</td>
<td>Not Available</td>
<td>15</td>
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</tr>
</tbody>
</table>

### Product Highlights

- **Please request for more information.**
- **Thick drops, non-slump binder for precision tacking operations.**
- **Rapid Cure chemistry with UV/Visible/Heat/Activator/Heat Cure options.**
- **Cures with UV/Visible/Heat or Activit 368.**
- **Very high strength, highly viscous metal/glass binder.**
- **Low shrinkage and good positive ultraviolet isolation capability. Resistant to moisture and low water absorption.**
- **Cures with UV/Visible/Heat or Activit 368.**
- **Very high strength, medium viscosity metal/glass binder.**
- **Low shrinkage and good positive ultraviolet isolation capability. Resistant to moisture and low water absorption.**
- **Cures with UV/Visible/Heat or Activit 368.**
- **Very high strength, high viscosity metal/glass binder.**
- **Low shrinkage and good positive ultraviolet isolation capability. Resistant to moisture and low water absorption.**
- **Cures with UV/Visible/Heat or Activit 368.**
- **Very high strength, high viscosity metal/glass binder.**
- **Low shrinkage and good positive ultraviolet isolation capability. Resistant to moisture and low water absorption.**
- **Cures with UV/Visible/Heat or Activit 368.**
- **Very good clarity, heat and moisture resistance.**
- **Low water absorption and good positive vibration isolation capability. Excellent bonding strength for metal clips applications.**

---

**Made in USA**

**Listen • Understand • Solve**

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### Uni-Seal™ Series

<table>
<thead>
<tr>
<th>Flag-Ship Products</th>
<th>Uni-Seal™ 1622</th>
<th>Uni-Seal™ 3203</th>
<th>Uni-Seal™ 3399</th>
<th>Uni-Seal™ 3368</th>
<th>Uni-Seal™ 3368B</th>
<th>Uni-Seal™ 3368G</th>
<th>Uni-Seal™ 3368GB</th>
<th>Uni-Seal™ 3393</th>
<th>Uni-Seal™ 3393L</th>
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<tbody>
<tr>
<td>Web Highlights</td>
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<tr>
<td>Type of Binder</td>
<td>Multi Substrates</td>
<td>Low Strength Multi-Substrates</td>
<td>Very Low Strength Multi-Substrates</td>
<td>Very Low Strength Multi-Substrates</td>
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<td>Competitive Products</td>
<td>Deco 4105</td>
<td>Selective Proofer</td>
<td>C</td>
<td>Tengar 3569G</td>
<td>Tengar 3669G</td>
<td>Dymax GA-15</td>
<td>Tengar 3569G</td>
<td>Dymax GA-15</td>
<td>Tengar 3566</td>
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<tr>
<td>Surface After Full Cure, ASTM D189</td>
<td>Touch-Free</td>
<td>Touch-Free</td>
<td>Touch-Free</td>
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<td>Touch-Free</td>
<td>Touch-Free</td>
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<tr>
<td>Tack-Free Core Surface using oven</td>
<td>165 x 165</td>
<td>165 x 165</td>
<td>165 x 165</td>
<td>165 x 165</td>
<td>165 x 165</td>
<td>165 x 165</td>
<td>165 x 165</td>
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<tr>
<td>Glass Fiber Tack Core Surface using oven</td>
<td>165 x 165</td>
<td>165 x 165</td>
<td>165 x 165</td>
<td>165 x 165</td>
<td>165 x 165</td>
<td>165 x 165</td>
<td>165 x 165</td>
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<tr>
<td>Viscosity (cP) from ASTM D3554</td>
<td>230 to 530</td>
<td>760 to 1500</td>
<td>&gt; 10 000</td>
<td>20 000 to 36 000</td>
<td>20 000 to 36 000</td>
<td>&gt; 10 000</td>
<td>400 to 800</td>
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<td>Shore Hardness ASTM D2240</td>
<td>A90 to A95</td>
<td>D70 to D80</td>
<td>A27 to A27</td>
<td>A27 to A27</td>
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<td>Linear Shrinkage NIST D5664</td>
<td>1.90%</td>
<td>3.90%</td>
<td>1.50%</td>
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<td>1.50%</td>
<td>1.50%</td>
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<td>Water Absorption ASTM D525</td>
<td>0.67%</td>
<td>0.67%</td>
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<td>0.67%</td>
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<td>0.67%</td>
<td>0.67%</td>
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<td>Flexural Strength</td>
<td>2.60</td>
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<td>2.60</td>
<td>2.60</td>
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<tr>
<td>Elongation at Break ASTM D189</td>
<td>25%</td>
<td>25%</td>
<td>25%</td>
<td>25%</td>
<td>25%</td>
<td>25%</td>
<td>25%</td>
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<tr>
<td>Temp. Resistance ASTM D338</td>
<td>165 to 170</td>
<td>165 to 170</td>
<td>165 to 170</td>
<td>165 to 170</td>
<td>165 to 170</td>
<td>165 to 170</td>
<td>165 to 170</td>
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<td>165 to 170</td>
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<tr>
<td>Young’s Modulus ASTM D356</td>
<td>36</td>
<td>36</td>
<td>36</td>
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<td>36</td>
<td>36</td>
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<td>Glass Transition Tg. ASTM D305</td>
<td>N.A.</td>
<td>N.A.</td>
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<td>Average Linear CTE ASTM D696</td>
<td>163</td>
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</tbody>
</table>

### Specialty Chemicals

- **Low viscosity binder/thermoset cast. Good adhesion for many substrates. Very low shrinkage and water absorption.**
- **Lightweight, low viscosity UV/VLF Light LED multi-paste binder.**
- **Touch-free and good chemical resistance.**
- **Rapid Cure chemistry. Ultra low, low viscosity UV/VLF Light LED multi-paste binder.**
- **Touch-free and good chemical resistance.**

- **Very thin, low water absorption and low viscosity.**
- **UV/VLF Light LED multi-paste binder.**
- **Touch-free and good chemical resistance.**
- **Rapid Cure chemistry. Ultra low, low viscosity UV/VLF Light LED multi-paste binder.**
- **Touch-free and good chemical resistance.**

- **Provides air tight seal with ease of peel for repair.**
- **Touch-free and good chemical resistance.**
- **Rapid Cure chemistry. Ultra low, low viscosity UV/VLF Light LED multi-paste binder.**
- **Touch-free and good chemical resistance.**

- **Very thin, low water absorption and low viscosity.**
- **UV/VLF Light LED multi-paste binder.**
- **Touch-free and good chemical resistance.**
- **Rapid Cure chemistry. Ultra low, low viscosity UV/VLF Light LED multi-paste binder.**
- **Touch-free and good chemical resistance.**

- **Low viscosity and low water absorption electronics sealant.**
- **Provides air tight seal with ease of peel for repair.**
- **Touch-free and good chemical resistance.**
- **Rapid Cure chemistry. Ultra low, low viscosity UV/VLF Light LED multi-paste binder.**
- **Touch-free and good chemical resistance.**
## Uni-Weld™ Series

<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td><strong>Type of Cure – Product Title</strong></td>
<td>UV/Visible Cure High Strength Metal Glass/Ceramic Bonders</td>
<td>UV/Visible Cure High Strength Metal Glass/Ceramic Bonders</td>
<td>UV/Visible Cure High Strength Metal Glass/Ceramic Bonders</td>
<td>UV/Visible Cure High Strength Metal Glass/Ceramic Bonders</td>
<td>UV/Visible Cure High Strength Metal Glass/Ceramic Bonders</td>
<td>UV/Visible Cure High Strength Metal Glass/Ceramic Bonders</td>
<td>UV/Visible Cure High Strength Metal Glass/Ceramic Bonders</td>
<td>UV/Visible Cure High Strength Metal Glass/Ceramic Bonders</td>
<td>UV/Visible Cure High Strength Metal Glass/Ceramic Bonders</td>
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<tr>
<td><strong>Viscosity</strong></td>
<td>1-3000</td>
<td>1-3500</td>
<td>1-5000</td>
<td>1-7500</td>
<td>1-10000</td>
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<tr>
<td><strong>Shear Hardness</strong></td>
<td>0.3-1.0</td>
<td>0.4-1.5</td>
<td>0.5-2.0</td>
<td>0.6-2.5</td>
<td>0.7-3.0</td>
<td>0.8-3.5</td>
<td>0.9-4.0</td>
<td>1.0-4.5</td>
<td>1.1-5.0</td>
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<tr>
<td><strong>Linear Shrinkage</strong></td>
<td>0.00%</td>
<td>0.01%</td>
<td>0.02%</td>
<td>0.03%</td>
<td>0.04%</td>
<td>0.05%</td>
<td>0.06%</td>
<td>0.07%</td>
<td>0.08%</td>
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<tr>
<td><strong>Water Absorption</strong></td>
<td>1.0%</td>
<td>2.0%</td>
<td>3.0%</td>
<td>4.0%</td>
<td>5.0%</td>
<td>6.0%</td>
<td>7.0%</td>
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<tr>
<td><strong>Tensile Strength</strong></td>
<td>45%</td>
<td>50%</td>
<td>55%</td>
<td>60%</td>
<td>65%</td>
<td>70%</td>
<td>75%</td>
<td>80%</td>
<td>85%</td>
</tr>
<tr>
<td><strong>Elongation at Break</strong></td>
<td>150%</td>
<td>200%</td>
<td>250%</td>
<td>300%</td>
<td>350%</td>
<td>400%</td>
<td>450%</td>
<td>500%</td>
<td>550%</td>
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<tr>
<td><strong>Impact resistance</strong></td>
<td>50%</td>
<td>55%</td>
<td>60%</td>
<td>65%</td>
<td>70%</td>
<td>75%</td>
<td>80%</td>
<td>85%</td>
<td>90%</td>
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<tr>
<td><strong>Vertical Modulus</strong></td>
<td>40%</td>
<td>45%</td>
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<td>55%</td>
<td>60%</td>
<td>65%</td>
<td>70%</td>
<td>75%</td>
<td>80%</td>
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<tr>
<td><strong>Glass Transition Temp IC</strong></td>
<td>Not Available</td>
<td>Not Available</td>
<td>Not Available</td>
<td>Not Available</td>
<td>Not Available</td>
<td>Not Available</td>
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<tr>
<td><strong>Average Linear CTE IC</strong></td>
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<td>Not Available</td>
<td>Not Available</td>
<td>Not Available</td>
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</tr>
</tbody>
</table>

### Specialty Chemicals

Section Two

Advancement in UV Technology

Uni-Weld™ Products - High Performance Metal Glass/Ceramic Bonding System.

- **Uni-Weld™ 2204**
- **Uni-Weld™ 2293**
- **Uni-Weld™ 2813**
- **Uni-Weld™ 3301**
- **Uni-Weld™ 3271**
- **Uni-Weld™ 8201**
- **Uni-Weld™ 8224**
- **Uni-Weld™ 8260**
- **Uni-Weld™ 9070**

**Key Features**

- High Performance Metal Glass/Ceramic Bonding Technology
- Low Shrinkage
- High Strength
- Excellent Adhesion
- Excellent Bonding Strength
- Easy Application

**Applications**

- Metal-to-Metal Bonding
- Glass-to-Glass Bonding
- Ceramic-to-Ceramic Bonding
- Metal-to-Ceramic Bonding

**Technical Specifications**

- Viscosity: 1-3000 mPa.s
- Shear Hardness: 0.3-1.0
- Linear Shrinkage: 0.00%
- Water Absorption: 1.0%
- Tensile Strength: 45%
- Elongation at Break: 150%
UV Curing Equipment

UV Measurement & Control

Left: LED L-395
L395 (370-422 nm)

Right: Broad Band
UVA (320-390nm)
UVB (280-320nm)
UVC (250-260nm)
UUV (200-280nm)

Section Two
Advancement in UV Technology
What is Chemistry-matching?

- **P**rocess requirements - Manual, semi-auto or fully-auto? Depends on volume.
- **A**dhesive selection - Industry, desired uncured and cured properties.
- **S**ubstrates used - Metal, glass, plastics, ceramics, etc
- **T**est requirements - Bond, potting, sealing or coating performance. Reliability tests (thermal-cycling / EtO / gamma etc).
- **E**quipment - Halogen Arc Lamps or UV LED Spot Lamps or Small Area Curing (up to ø12mm)
  Flood Lamps for Large Area Curing (up to 150x200mm)
  Flood or Focused on Conveyor for Very Large Area Curing
Section One  Company Profile
- Mission Statement
- Core Competencies

Section Two  Advancement in UV Technology
- Wide Offerings & Specialty Chemicals
- UV curing Equipment, Measurement & Control
- Matching Chemistry

Section Three  The Incure Experience
- IncureDirect™
- IncureConsult™
- IncureCollaborate™
- IncureLab™
- IncureRental™ Program
IncureDirect™
Provides an open channel for end-users to work directly with Incure on all applications. Quick and easy access to working solutions for all bonding needs. Minimizes indirect costs associated distribution channels.

IncureConsult™
Take advantage of direct professional advice from Incure Product Development Consultant. IncureConsult™ embraces matching-chemistry in 3 simple steps:
(1) Understanding your application, choice of substrates and test requirements
(2) Recommending the most suitable adhesive and best-matched UV curing equipment
(3) Establish a reliable and controlled manufacturing process

IncureCollaborate™
Faster turn-around for evaluation samples, coupled with enhanced confidentiality for customized solutions.

IncureLab™
Conduct your design-on-experiment (DOEs) with the use of Incure laboratory facility and equipment at a small fee. Easy access to a wide range of adhesives and coatings, curing lamps and testing equipment for your application needs.

IncureRental™
Use of Incure curing equipment on weekly rental basis. Choice of purchase of curing system by offsetting rental charges at the end of trial period.
Who can benefit from Incure Experience Centre (IEC)?

• Product Research & Development
• Design Engineering
• Manufacturing
• Engineering

How can you benefit from Incure Experience Centre (IEC)?

• Tap on the expertise and experience of our Applications Consultants
• Select and match an adhesive product of your choice of substrates
• Know what you are in for when you can have hands-on access to a wide range of UV curing system
• In-house equipment to support full cure test, hardness, elongation and tensile tests, viscosity measurement, strength validation etc.
• DOE at our laboratory for your bonding needs at a nominal fee.
• 24-hr R&D centers work on customized formulations