From the small speakers in a toy to mid sized electronics speakers to the largest stage speakers, Permabond works with you to ensure that the best adhesive is selected for optimum performance.

Applications that appear the same on the surface, such as speakers and microphones, often have vastly different requirements in their underlying design and construction.

For example:
1. Permabond cyanoacrylates are used to instantly bond the small magnets in headsets.
2. Permabond ET510 is the preferred choice for consumer electronics, like cell phones, due to its durable strength.
3. Permabond UV light curables meet the production requirements of fire alarm speakers where the ‘cure on demand’ aspect of UV light curables allows high speed production.
4. Permabond TA4590 is ideal for the harsh demands of bonding the magnets in loudspeakers.

Permabond has a complete line of adhesives to offer a total solution to complex assembly needs.
The table below includes Permabond adhesives and sealants that are commonly used for the listed application. Depending on your application requirements a different Permabond solution may be more suitable to your needs. Please contact Permabond. Permabond’s technical team would be more than happy to help with your adhesive selection.

<table>
<thead>
<tr>
<th>Typical Product</th>
<th>Application Description</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>2011</td>
<td>Basket Assembly to Surround</td>
<td>Thixotropic gel; High strength bonding for this vertical application.</td>
</tr>
<tr>
<td>737 &amp; 735</td>
<td>Surround to Cone</td>
<td>Flexible, black, &amp; toughened. Use Permabond 737 for larger gap filling.</td>
</tr>
<tr>
<td>737 &amp; 735</td>
<td>Cone to Spider</td>
<td>Permabond 737 is flexible &amp; toughened. Permabond 2011 is non sag for vertical applications.</td>
</tr>
<tr>
<td>2011 &amp; 737</td>
<td>Dust Cap to Cone</td>
<td>Permabond 737 is flexible &amp; toughened. Permabond 2011 is non sag for vertical applications.</td>
</tr>
<tr>
<td>TA4590 &amp; TA437</td>
<td>Pole Piece to Magnet Assembly</td>
<td>Fast, high strength, high temperature resistant bonds.</td>
</tr>
<tr>
<td>ET510, 737 &amp; 735</td>
<td>Voice Coil to Cone</td>
<td>Flexible, toughened bonds. Product selection based on substrate.</td>
</tr>
<tr>
<td>UV645 &amp; UV649</td>
<td>Cable/wire to Cone</td>
<td>Clear, cure-on-demand bonding. Use Permabond UV649 for larger gaps and vertical applications.</td>
</tr>
</tbody>
</table>

Contact Permabond

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The information given and the recommendations made herein are based on our experience and are believed to be accurate. No guarantee as to, or responsibility for, their accuracy can be given or accepted, however, and no statement herein is to be treated as a representation or warranty. In every case we urge and recommend that purchasers, before using any product, make their own tests to determine, to their own satisfaction, its suitability for their particular purposes under their own operating conditions. Always refer to current product technical datasheet for most recent and accurate technical information.

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