

## Conductive Adhesives

EMCEMI's single part conductive adhesives are available in a wide range of sizes which are listed below. The conductive adhesives are an ideal solution when you require a flexible gasket which is also an environmental seal on things such as PCB's and small electronic equipment, when there isn't room for a substantial gasket. These adhesives are single use only, but are ideal when you only have a 'small land area' available. Shelf life is up to 1 year if kept in the original packaging and stored in a cool dry atmosphere below 18 degrees. If you require other sizes please contact us, and we will be happy to help.



### How to order

#### Size Code

- 1 - 10ml
- 2 - 30ml
- 3 - 55ml
- 4 - 100ml
- 5 - 170ml
- 6 - 250ml
- 7 - 310ml
- 8 - 500ml

#### Material Code

- 1 - Silicone Nickel Graphite (SNG)
- 2 - Silicone Nickel (SN)
- 3 - Silicone Silver Glass (SSG)
- 4 - Silicone Silver Aluminium (SSA)
- 5 - Silicone Silver Copper (SSC)
- 6 - Pure Silver

For Example: CA-1-5 = Silicone Nickel Graphite RTV in a 170ml cartridge.  
Other sizes are available so please contact us with your requirements.

### Features:

- Electrically Conductive
- Available in 10, 30, 55, 170 and 310ml sizes
- Thixopaste - One Part No Mixing Required
- Non Corrosive
- Excellent Adhesion to various substrates
- Safety and Handling information available, please contact for further details

| Part Number                      | CA-1            | CA-3         | CA-2          | CA-4            | CA-5          | CA-6        |
|----------------------------------|-----------------|--------------|---------------|-----------------|---------------|-------------|
| Conductive Filler                | Nickel Graphite | Silver Glass | Silver Nickel | Silver Aluminum | Silver Copper | Pure Silver |
| Specific Gravity                 | 2.29            | 1.82         | 3.58          | 1.86            | 3.58          | 4.2         |
| Consistency                      | Thick Paste     | Thick Paste  | Thick Paste   | Thick Paste     | Thick Paste   | Thick Paste |
| Lap Shear Strength Minimum (PSI) | 150             | 120          | 120           | 175             | 200           | 225         |
| Operating Temp Range (°C)        | -48<br>204      | -48<br>204   | -48<br>204    | -48<br>204      | -48<br>204    | -48<br>204  |
| Skin Over (Min)                  | 15              | 15           | 15            | 15              | 15            | 15          |
| Tack Free (Min)                  | 90              | 90           | 90            | 90              | 90            | 90          |
| Cure for Handling                | 12-24 hrs       | 12-24 hrs    | 12-24 hrs     | 12-24 hrs       | 12-24 hrs     | 12-24 hrs   |
| Full Cure                        | 72-144 hrs      | 72-144 hrs   | 72-144 hrs    | 72-144 hrs      | 72-144 hrs    | 72-144 hrs  |
| Color                            | Dark Gray       | Light Tan    | Tan           | Tan/Blue        | Dark Tan      | Tan         |
| Durometer Shore A                | 65              | 70           | 75            | 68              | 70            | 65          |
| Tensile Strength PSI (Min)       | 540             | 415          | 285           | 260             | 285           | 280         |
| Elongation % (Min)               | 210             | 100          | 150           | 155             | 150           | 165         |
| Tear Strength #/in (Min)         | 90              | 52           | 50            | 45              | 50            | 54          |
| Volume Resistivity               | 0.06            | 0.01         | 0.008         | 0.01            | 0.008         | 0.005       |