

# STAR Technology

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## BC-15

### Heat Cure Epoxy Armature Balancing Compound

#### DESCRIPTION

BC-15 epoxy putty was developed to support manual applications for weight addition balancing of DC & AC motors. The ease of extrusion and fast cure provides for high output and precision balances. Since BC-15 balancing compound does not require mixing, application time and product waste are both reduced. The high specific gravity of BC-15 optimizes smaller motor design, along with greater accuracy of balance. This product may contain fillers that may settle over time. Product may need to be stirred before using. Customer must determine suitability of product before using.

Data contained herein are believed to be reliable. Fit-for-use testing should be conducted by each user.

| TYPICAL PROPERTIES                | TEST METHOD | VALUE               |
|-----------------------------------|-------------|---------------------|
| Cure Time (minutes): <sup>1</sup> |             |                     |
| 375°F:                            |             | 2.5                 |
| 350°F:                            |             | 3.0                 |
| 325°F:                            |             | 4.5                 |
| 300°F:                            |             | 6.5                 |
| 220°F:                            |             | 20                  |
| Shore D Hardness:                 | ASTM D2240  | 91                  |
| Lap Shear [CRS to CRS] (psi):     | ASTM D1002  |                     |
| 20 Minutes at 300°F:              |             | 1000                |
| Tensile Strength (psi):           | ASTM D638   | 1000                |
| Tg (°C):                          | ASTM D3418  | 110                 |
| Weight Loss (%):                  |             |                     |
| After 4 Hours at 190°C by TGA:    |             | -0.16               |
| Volume Resistivity (ohm-cm):      |             | >9x10 <sup>11</sup> |
| Slump Resistance:                 | ASTM D2202  |                     |
| 150°C:                            |             | No Slump            |
| Specific Gravity (g/cc):          | ASTM D1475  | 2.70                |
| Viscosity (cps):                  |             | Putty               |
| Color:                            |             | Red                 |

#### Notes:

<sup>1</sup> It is necessary for the motor armature to attain this temperature for the stated time in order for BC-15 to reach full cure.

To the best of our knowledge, the information contained herein is accurate. However, STAR TECHNOLOGY, Inc., does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of the suitability of any material is the sole responsibility of the user. The information contained herein is considered typical properties and is not intended to be used as specifications for our products. This information is offered solely to assist purchaser in selecting the appropriate products for purchaser's own testing. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein and in the material safety data sheet, we cannot guarantee that these are the only hazards that exist. Repeated and prolonged exposure to epoxy resins can cause sensitization or other allergic responses.



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#### PRECAUTIONS

For industrial use only. Keep away from children.

Refer to the Material Safety Data Sheets (MSDS forms) pertaining to this product before using.

Avoid contact with skin or eyes. In the event of an eye splash or contact, immediately flush with cold water for 15 minutes and contact a physician. If skin contact occurs, wash with mild soap and water. The wearing of safety glasses with side shields and impervious gloves is recommended.

#### PRODUCT WARNING STATEMENT

May cause allergic skin reaction. Avoid all contact with skin, eyes, and clothing. Wash thoroughly after handling.

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