



Anode cap is Heat Shrinkable Cap, used to seal and protect the critical connection between the lead wire and anode.

It provides stress relief, moisture proofing and electrical insulation at the lead wire exit point. It is the ideal solution to the problem of premature system failure due to corrosion causing lead wire to come out of the anode.

It is made from a highly Cross-linked Polyolefin material. Rubber based mastic coating inside the cap adheres to Anode material and wire insulation which provides water tight sealing according to IP 68 (Ingress Protection).

### Technical Specification

| PROPERTIES                     | VALUE                             | STANDARD   |
|--------------------------------|-----------------------------------|------------|
| <b>Physical</b>                |                                   |            |
| Tensile Strength               | 12 N/mm <sup>2</sup> (Mpa) (min.) | ASTM D638  |
| Ultimate Elongation            | 350 % (min)                       | ASTM D638  |
| Density                        | 1.1 gm/cm <sup>3</sup> (max.)     | ASTM D792  |
| Hardness                       | 45 ±10 Shore D                    | ASTM D2240 |
| Water absorption               | 0.2 % (max.)                      | ASTM D570  |
| Corrosion                      | Non-corrosive                     | ASTM D2671 |
| <b>Thermal</b>                 |                                   |            |
| Accelerated ageing             | (120°C for 500 hrs)               | ASTM D2671 |
| Tensile Strength               | 11 N/mm <sup>2</sup> (Mpa) (min.) | ASTM D638  |
| Ultimate Elongation            | 300 % (min.)                      | ASTM D638  |
| Low Temperature Flexibility    | No Cracking                       | ASTM D2671 |
| (-40°C for 4 hrs.)             |                                   |            |
| Heat Shock (250°C for 30 min.) | No cracking or flowing            | ESI 09-11  |
| Shrink Temperature             | 125°C                             | IEC 216    |
| Operating Temperature          | -55 to +100°C                     | IEC 216    |
| <b>Electrical</b>              |                                   |            |
| Dielectric Strength            | 12 KV/mm.(min)                    | ASTM D149  |
| Volume Resistivity             | 1 x 10 <sup>14</sup> Ohm.cm (min) | ASTM D257  |
| Dielectric constant            | 5 (max.)                          | ASTM D150  |

### Selection Chart

All dimensions are in mm.

| Code      | Anode End |      | Lead Wire End |      | Length (Supplied) |       |          | Length (Recovered) |       |          | Thickness (After Recovery) |       |
|-----------|-----------|------|---------------|------|-------------------|-------|----------|--------------------|-------|----------|----------------------------|-------|
|           | D         |      | d             |      | Total             | Anode | Wire End | Total              | Anode | Wire End | T                          |       |
|           | Ds        | Df   | ds            | df   | TL                | La    | Lw       | TL                 | La    | Lw       | Ta                         | Tw    |
|           | Min.      | Max. | Min.          | Mix. | ±2%               | ±2%   | ±2%      | ±2%                | ±2%   | ±2%      | f±10%                      | f±10% |
| GAC 0540  | 82        | 40   | 16            | 5    | 150               | 80    | 70       | 170                | 110   | 60       | 3.8                        | 3.8   |
| GAC 0540A | 108       | 40   | 16            | 5    | 150               | 80    | 70       | 175                | 115   | 60       | 4.7                        | 3.6   |
| GAC 0550* | 145       | 50   | 20            | 6    | 190               | 90    | 100      | 253                | 145   | 108      | 3.9                        | 4.7   |

D,d : Internal Diameter; s : as supplied; f; after free recovery;  
Ta, Tw: Thickness of Anode & Lead Wire End

