



### Features/Applications

GREMTUBE® GR 150 and GR 150 TW are a high performance, flame retardant, specially formulated polymer heat shrink tubing.

GREMTUBE® GR 150 and GR 150 TW offers high temperature performances (up to 200°C), an excellent resistance to chemicals: fuel, lubricating and hydraulic oil and outstanding mechanical characteristics.

GREMTUBE® GR 150 and GR 150 TW is suitable for use in harsh environments, typically: military, aerospace, marine, industrial and railway sectors.

### Various

Standard colour: Black.

### Specifications

SAE-AMS-DTL-23053/16

#### Dimensions



| Reference               | As supplied (mm)         | After recovered (mm)     |                         | Standard packing (m/spool) |
|-------------------------|--------------------------|--------------------------|-------------------------|----------------------------|
|                         | Inside Diameter Min. (D) | Inside Diameter Max. (d) | Wall Thickness Min. (t) |                            |
| <b>GREMTUBE® GR 150</b> |                          |                          |                         |                            |
| 1/8                     | 3.2                      | 1.6                      | 0.76                    | 50                         |
| 3/16                    | 4.8                      | 2.4                      | 0.85                    | 50                         |
| 1/4                     | 6.4                      | 3.2                      | 0.90                    | 50                         |
| 3/8                     | 9.5                      | 4.8                      | 1.02                    | 50                         |
| 1/2                     | 12.7                     | 6.4                      | 1.22                    | 30                         |
| 3/4                     | 19.1                     | 9.5                      | 1.45                    | 30                         |
| 1                       | 25.4                     | 12.7                     | 1.80                    | 30                         |
| 1 1/2                   | 38.1                     | 19.1                     | 2.40                    | 15                         |

| Reference                  | As supplied (mm)         | After recovered (mm)     |                         | Standard packing (m/spool) |
|----------------------------|--------------------------|--------------------------|-------------------------|----------------------------|
|                            | Inside Diameter Min. (D) | Inside Diameter Max. (d) | Wall Thickness Min. (t) |                            |
| <b>GREMTUBE® GR 150 TW</b> |                          |                          |                         |                            |
| 3/32                       | 2.4                      | 1.2                      | 0.51                    | 50                         |
| 1/8                        | 3.2                      | 1.6                      | 0.51                    | 50                         |
| 3/16                       | 4.8                      | 2.4                      | 0.51                    | 50                         |
| 1/4                        | 6.4                      | 3.2                      | 0.64                    | 50                         |
| 3/8                        | 9.5                      | 4.8                      | 0.64                    | 50                         |
| 1/2                        | 12.7                     | 6.4                      | 0.64                    | 30                         |
| 3/4                        | 19.1                     | 9.5                      | 0.76                    | 30                         |
| 1                          | 25.4                     | 12.7                     | 0.90                    | 30                         |
| 1 1/4                      | 31.8                     | 15.9                     | 1.10                    | 30                         |
| 1 1/2                      | 38.1                     | 19.1                     | 1.02                    | 15                         |

#### Property

| Property                          | Values                           | Test Methods   |
|-----------------------------------|----------------------------------|--|
| Working temperature               | -65°C to +150°C                  | -  |
| Tensile strength                  | ≥ 13 Mpa                         | ASTM D 2671  |
| Elongation at break               | ≥ 250%                           | ASTM D 2671  |
| Elongation at break after aging   | ≥ 220%                           | 100°C/168hrs.  |
| Heat shock                        | No cracking or dropping          | 200°C/4hrs.  |
| Flexibility (2% secant)           | < 50 MPa                         | ASTM D 876   |
| Volume resistance                 | ≥ 10 <sup>9</sup> Ω.cm           | ASTM D 876   |
| Flammability                      | Self-extinguishing in 15 seconds | ASTM D 2671  |
| Fluid resistance tensile strength | ≥ 10MPa                          | SO 37 24hrs. (Diesel at 70°C, Hydraulic at 70°C, Lubricant at 100°C) |
| Fluid resistance elongation       | ≥ 300%                           |  |

Recommended storage conditions: Keep in cool, dry, ventilated storage (maximum temperature of 35°C) and in closed containers.

