

AvCarb®

WET FRICTION MATERIALS

"AvCarb is committed to providing the best performing materials and world-class technical support to innovators in the friction material market."



President and CEO
AvCarb Material Solutions

PRODUCT OVERVIEW



Product Highlights:

- Low Wear Over Lifetime
- Stable friction coefficient
- Rapid Heat Dissipation
- High Compressive Strength
- Thermal Stability

| | Typical Thickness | Density | Air Permeability | Bending Diameter | Weave Style |
|-------------|-------------------|---------|------------------|------------------|-------------|
| Units | mm | g/cc | gurley-sec | mm | N/A |
| AvCarb 1000 | 0.45 | 0.83 | <3s | ≥ 25 mm | Plain |
| AvCarb 1057 | 0.48 | 1.1 | <8s | ≥ 40 mm | Plain |
| AvCarb 1059 | 0.58 | 0.95 | <5s | ≥ 30 mm | Plain |
| AvCarb 1136 | 0.6 | 1.03 | <3s | ≥ 35 mm | Panama |
| AvCarb 1138 | 0.4 | 0.93 | <3s | ≥ 30 mm | Twill |
| AvCarb 1140 | 0.48 | 0.98 | <4s | ≥ 35 mm | Twill |

For over 20 years, leading auto OEMs have relied on AvCarb® Wet Friction Materials for long lasting high performance friction systems.

Woven carbon fiber fabric, infiltrated with phenolic resin matrix, and formed to highly uniform thicknesses, provides an durable friction surface suitable for even the most wet friction demanding applications. In typical wet friction systems, AvCarb materials provide a highly stable coefficient of friction, typically between 0.11-0.13 depending on geometry and transmission fluid.

AvCarb Wet Friction Products are provided in a fully cured sheet form with or without adhesives. Other versions are available (e.g. partially cured prepreg). Typical applications include torque converter clutches (TCC), automated manual transmissions (AMT), dual clutch transmissions (DCT), manual transmissions (MT), and wet brakes for passenger cars or heavy duty vehicles.

Contact us today to receive complimentary samples!

Quick Connections:

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