



## Donaldson Aerospace & Defense Filter Media Technology



Donaldson filtration solutions are rooted in our advanced filtration media technology. Donaldson has the ability to design and develop liquid and air filtration media for specific applications. Unique to the industry, Donaldson's prototype filter media manufacturing facility allows us to develop and test optimized media formulations to meet specific customer needs.

Donaldson is committed to advancing filtration technology. With over 1,500 engineers worldwide, we're committed to satisfying customer needs through innovative research and development.

### WIDE SELECTION

- Proprietary formulations
- Ultra-Web® Nanofiber Technology, Cellulose, Synthetic, Glass, Blends and Specialty
- Media types available for:
  - Electronic Cooling Systems
  - Flame Retardant Applications
  - Environmental Control Systems
  - Hydraulic Systems
  - Engines: Air Intake, Lube, Fuel, Coolant and Transmission
- Emissions Filter Substrates
- Experience with ceramic (standard and thin wall, SiC and metallic substrates from 7.5" to 12.5" dia.)

### IN-HOUSE MEDIA CAPABILITIES

- Wet-laid media pilot plant for trial runs
- Development of proprietary formulations

### MEDIA PACKAGING

- Extensive packaging methodologies
- Panel
- Round
- Vee-Pac®
- PowerCore®
- RadialSeal™
- Axial seal
- Pleatloc™

### MEDIA CHARACTERIZATION TESTS

- Permeability
- Efficiency
- Submicron loading (soot)
- Tensile strength
- Burst strength
- Basis weight
- Thickness
- Stiffness
- Gurley stiffness
- 3-Point bend

### FILTER PERFORMANCE TESTS

- MIL-PRF-62048
- MIL-PRF-46736
- MIL-STD-810
- Efficiency testing
- Gravimetric
- Fractional
- Capacity testing per ISO5011, SAE J726
- Particle counting
- Multi-pass testing per ISO 16889
- ISO, SAE, NFPA
- Customer standards
- Contaminant capacity