

# POWERCORE® SPIDER-WEB®

## Fully Synthetic Media



Donaldson PowerCore Spider-Web filter media uses a proprietary blend of cellulose and fully synthetic man-made fibers to create a multi-layer moisture and humidity resistant premium filter media substrate. A surface coating of Donaldson Spider-Web fine fibers is added for high efficiency against small particles. By controlling the material, shape and diameter of the fibers, this multi-layered media is designed to perform effectively in most environments.

Independent lab results are required to ensure validity of the fractional efficiency information. Donaldson can provide independent lab verification upon request.

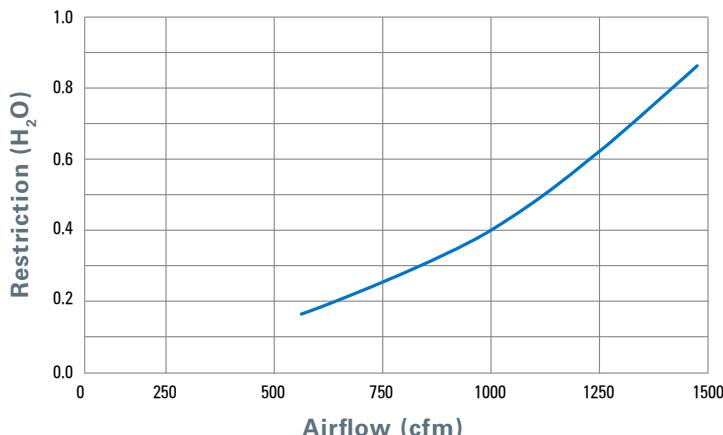
Gas turbine engines are susceptible to fouling of the inlet compressor blades. This fouling is significantly affected by particles in the air stream that are less than 1 micron in size. For that reason, the fractional efficiency of the filter on submicron particles is very important to the cleanliness of the turbine compressor.

### PERFORMANCE DATA

(Performance data based on P191988)

ASHRAE 52.2 Testing @ 1,162 CFM / 0.55 m <sup>3</sup> /s.....	.....MERV 13
Initial Resistance.....	.....0.55" wg / 137 Pascal
E1 (0.3 to 1.0 micron).....	.....65%
E2 (1.0 to 3.0 micron).....	.....95%
E3 (3.0 to 10.0 micron).....	.....100%

### RESTRICTION VS. AIRFLOW



### SPECIFICATIONS

Size .....	20" diameter x 7" deep (508mm diameter x 178mm deep)
Filter Media .....	High efficiency flame retardant PowerCore media with Donaldson Spider-Web fine fiber
Media Area .....	185 ft <sup>2</sup> (17.2 m <sup>2</sup> )
Gasket .....	Radial seal circumferential closed cell PVC foam
No Metal.....	Fully incinerable

### PART NUMBERS

P039762 .....	Flame Retardant
P191988 .....	Standard

**Important Notice:** Many factors beyond the control of Donaldson can affect the use and performance of Donaldson products in a particular application, including the conditions under which the product is used. Since these factors are uniquely within the user's knowledge and control, it is essential the user evaluate the products to determine whether the product is fit for the particular purpose and suitable for the user's application. All products, product specifications, availability and data are subject to change without notice, and may vary by region or country.

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**Donaldson**  
FILTRATION SOLUTIONS

**GAS TURBINE SYSTEMS**