



**What is Activated Carbon Felt?**

Activated Carbon Felt (ACF) is a porous form of carbon which can be manufactured from a variety of caronaceous raw materials. Our premium material is produced from carbon fiber and activated by gas flow to develop a high surface pore structure and specific surface area ranging from 950-1500 M<sup>2</sup>/g dependent on grade. Due to the material’s excellent adsorption properties, ACF is commonly used for recovery, purification, and filtration applications. Recommended max temperature is 725°F (400°C) in an oxidizing atmosphere, and 1472°F (800°C) in vacuum or inert atmospheres. Additionally, Material regeneration using heat or other methods is excellent as adsorption capacity is approximatly the same after many regeneration cycles.



**Material Benefits**

- Heat, acid, and alkaline resistant
- Large adsorption volume
- Fast adsorption speed
- Specific surface area of 950-1500 M<sup>2</sup>/g, dependent on grade
- Regeneration of material convenient and easy at relative low temperatures

**Applications**

- Solvent and organic compound recovery
- Air purification & Water treatment
- Gas Masks & Cigarette filtration
- Nuclear air cleaning systems
- Ozone elimination filter and deodorizer
- Gasoline fumes
- Vaporization protection for cars

**Stocked Sizing and Custom Production**

Activated Carbon felt is a custom production material and made to order. Our office does stock A4 samples for smaller applications and testing purposes. Contact us directly for larger sizes and custom quote request.

Properties	Unit	ACF1000	ACF1300	ACF1500	ACF1600
Density per meter <sup>2</sup>	g/m <sup>2</sup>	280 ± 30	250 ± 30	250 ± 30	250 ± 30
Specific Surface Area	M <sup>2</sup> /g	950	1200	1350	1500
Micropore Diameter	A	17-20	17-20	17-20	17-20
Micropore Volume	ml/g	0.8-1.2	0.8-1.2	0.8-1.2	0.8-1.2
Benzene Absorption Capacity	%	30-35	38-43	45-50	53-58
Iodine Absorption Value	mg/g	850-900	1100-1200	1300-1400	1400-1500
Methylene Blue Absorption Value	mg/g	150	180	220	250
PH Value	pH	5-7	5-7	5-7	5-7
Fire Point Centigrade	°F   °C	≥ 932   500	≥ 932   500	≥ 932   500	≥ 932   500
Recommended Max Temp					
Oxidizing Atmosphere	°F   °C	725   400	725   400	725   400	725   400
Vacuum or Inert Atmosphere	°F   °C	1472   800	1472   800	1472   800	1472   800