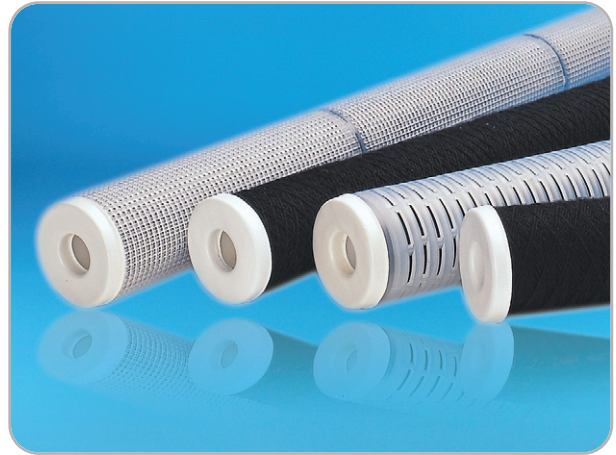


CLEANFLOW™

DESCRIPTION

CLEANFLOW™ carbon cartridge are designed and developed to serve as a dual purpose filter for carbon treatment as well as dusts for various fluids and liquids
 클린플로 카본필터는 섬유상 활성탄소 및 덤스카본패드와 마이크로 필터의 복합구조로써 카본필터와 마이크로 필터의 복합 기능을 갖는다. (실용신안등록)

- A1500, A3000 series
- No leakage of the powder of carbon at the initial filtering stage
- Vast area of average covering and regular and fine process
- High speed for adsorption and detachment, more than twice compare to particles and sinks
- 카본함량에 따른 A1500, A3000 두가지 형태
- 섬유상 및 덤스패드 사용으로 초기 카본 유출이 없음
- 평균 비표면적이 크며, 공경이 미세하고 균일함
- 입상/침상 카본필터에 비해 흡/탈착 속도가 2배 이상으로 매우 우수함



Applications

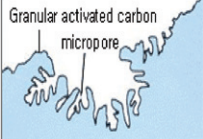
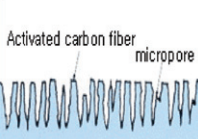
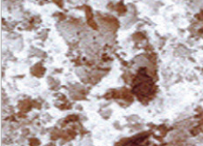

Carbon treatment of chemicals and plating solutions, de chlorination and removal of taste, odor, color, and organics from potable & process water, and many other industrial fluids

- General process industry
- Chemical industry
- Electronic industry
- Food & Beverage industry

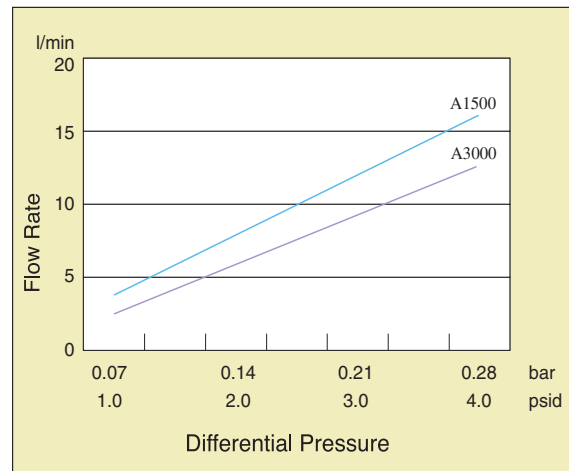
Feature

| Kind of media | Feature |
|-----------------------------------|--|
| Granular Activated Carbon (G.A.C) | <ul style="list-style-type: none"> • A form of charcoal that that has been treated by high temperatures and steam in the absence of oxygen. • Make from coconut shell, adsorption efficiency is high than general coal. • But, adsorption efficiency is low than A.C.F or Depth carbon. • Lower filtration costs. |
| Depth Activated Carbon (D.A.C) | <ul style="list-style-type: none"> • Depth carbon's raw material is similar to G.A.C. • Finery pulverized carbon powder blended with cellulose. • Higher density and effective area than G.A.C. • So, higher absorption efficiency than G.A.C. |
| Activated Carbon Fiber (A.C.F) | <ul style="list-style-type: none"> • Produced by burning or activating organic fiber • Vast area of average covering and regular and fine process. • High speed for absorption and detachment, more than twice compared to granular and sinks. • Resistance of absorption movement into and out of adsorbents minimized because of small diameters |

Structure of media

| Properties/Type | G,A,C & D,A,C | A,C,F |
|----------------------------------|---|---|
| Pore structure |  |  |
| |  |  |
| Specific area(m ² /g) | Min. 900 | Min. 1200 |
| Carbon size(Å) | 400 ~ 1000 | 10 ~ 40 |
| Adsorption rate of benzene | 30 ~ 35% | 45 ~ 50% |

Water flow rate



Specification

| | | |
|----------------------|-------------------------------|---|
| Dimension | Length (mm) | 250 / 500 / 750 / 1000 |
| | Inner diameter (mm) | 28 / 30 |
| | Outer diameter (mm) | 62, 70 (With cage) |
| Material | Media (Yarn) | Carbon black PP yarn |
| | Main Media (Sheets) | ACF sheets, Depth carbon pad |
| | Core & Out cage | Polypropylene |
| | End caps | Foamed PE |
| | Seal materials | Silicone / EPR / Viton / FEP encapsulated |
| Operating Conditions | Max Temperature (°C) | 85 |
| | Max ΔP (Kgf/cm ²) | 4.5 |

Change-out time

| Type | Liters |
|-------|--------|
| A1500 | 5,000 |
| A3000 | 10,000 |

※ Recommended for treatment water per 10" cartridge

- 90% removal rate of chlorine
- Co = 2ppm, Flow-rate = 40 lpm
- Operating temperature = 20±1°C

Some determining factors for replacement time water conditions and temperature, number of gallons treated, chlorine and other organic chemical content of the feed water, sediment and turbidity.

Part number identification



| ① | ② | ③ | ④ | ⑤ | ⑥ | ⑦ |
|--|------------|-----------------------|---|--|---------------------------------|----------------|
| End style | Media | Materials of Core | Materials of Seal | Length of filter (mm) | Inner/Outer Diameter (ID/OD,mm) | Grade |
| G : With Gasket S : With Gasket & out cage | 6 : Carbon | 1 : Regular PP (85°C) | P : Foamed PE S : Silicone E : EPR V : Viton F : FEP encapsulated | 1 : 250 2 : 500 3 : 750 4 : 1000 6 : 125 | 1 : 30 / 62 2 : 58 / 62 | A1500 A3000 |
| 2 : 226 / Flat 3 : 222 / Flat 7 : 226 / Fin 8 : 222 / Fin | | | | | | |

※ [CSC]- Pre Media : Yarn type , [CSN] - Pre Media : Non-woven type