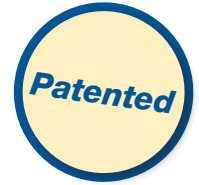


405 D Series “Dual Purpose”

Removes Particulate,
Detects Phase Separation & Senses Water



40510D

Detects and Reacts to Phase Separation in Ethanol Blends and Senses Water in Gasoline, Diesel and Biodiesel

Benefits

- PetroClear® model 40510D is a particulate removing, water sensing and phase separation detecting spin-on filter.
- PetroClear® model 40510D filter offers efficient 10 micron (nominal) particulate removal, and senses both free and emulsified water in neat gasoline, diesel and biodiesel. PetroClear® model 40510D is designed to slow flow as an indicator of the presence of water in neat gasoline, diesel and biodiesel.
- PetroClear® model 40510D is also designed to detect and react to phase separation in ethanol blended gasoline. The 40510D filter will significantly restrict the flow of fuel if it detects phase separation.
- Textured paint coating helps ensure a simple, mess-free installation and removal process.
- UL® recognized.
- This patented dual filter from Champion Laboratories, Inc. protects during the transition from neat gasoline to ethanol blends without changing filters.
- The 40510D filter's versatility enables operators to condense their filter inventory by eliminating the need to stock filters that address multiple filtration needs.

PetroClear® Filters are NOT to be used in Aviation Fuel Applications!

FOR DISPOSAL INFORMATION PLEASE CONTACT YOUR NEAREST EPA OFFICE.

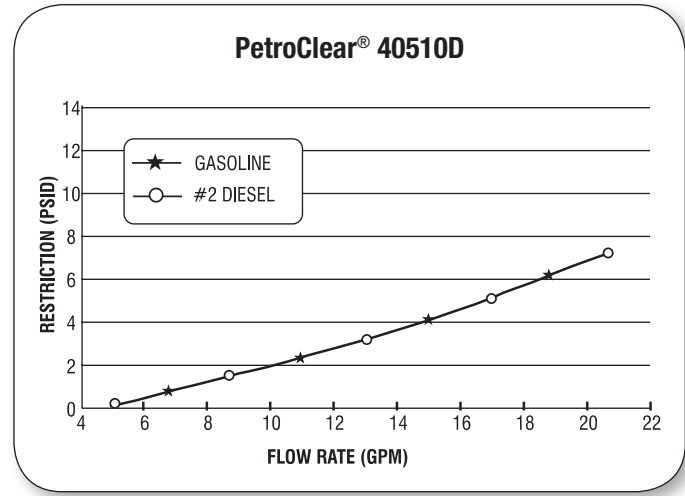
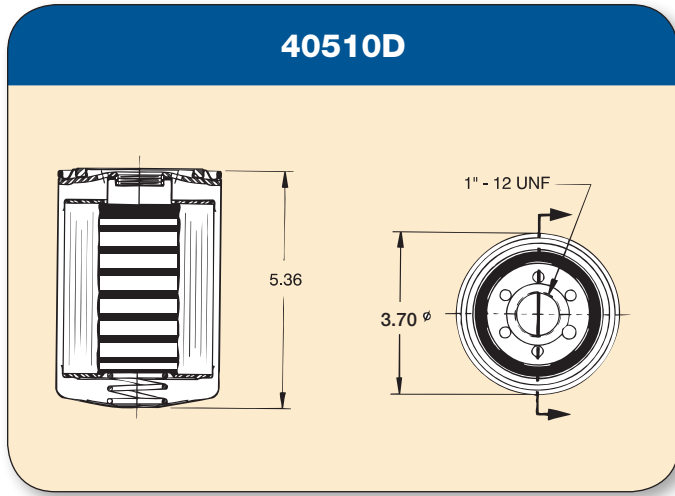
Specifications

- The PetroClear® model 40510D utilizes a 10 micron (nominal) cellulose media to remove particulate 10 microns (nominal) or larger from neat gasoline, ethanol blends, diesel and biodiesel. The PetroClear® model 40510D also senses water in neat gasoline, diesel and bio-diesel. The PetroClear® model 40510D provides phase separation detecting capabilities for ethanol-blended gasoline. It utilizes a super absorbent media for sensing water and a chemical core assembly to detect and react to phase separation.
- Once the PetroClear® model 40510D has absorbed 5.9 ounces (175 mil) of water, flow will be noticeably slow.
- The center chemical core assembly detects and reacts to phase separation and significantly restricts flow through filters.
- The maximum flow rate for PetroClear® model 40510D is 25 gpm (94.6 lpm). Maximum operating pressure is 50 psid (3.4 bar).
- Collapse pressure is 150 psid (10.3 bar). Maximum operating temperature is 250°F (139°C).
- PetroClear® model 40510D “Dual Purpose” utilizes a standard 1" – 12 UNF mounting thread ref. (3/4" flow) required for most spin-on filter Adapters used in Gilbarco, Wayne, Bennett, Tokheim and other major manufacturers' dispensers, as well as with Adapters used in the aftermarket.
- Adapters are available for model 40510D in aluminum and cast iron. These single Adapters are available in both 3/4" and 1" NPT and BSP inlet/outlet threads.

NOTE: If you experience frequent filter changes, it is recommended that you have fuel samples analyzed to determine the source of contamination, such as water, dirt, rust, bacteria, phase separation, etc.

40510D “Dual Purpose”

Removes Particulate, Detects Phase Separation & Senses Water



Model	40510D
Filter Type	Spin-On
Media Type	Cellulose* with Super Absorbent Media** and Chemical Core***
Micron Rating	10 Micron (nominal)
Diameter	3.70"
Height	5.36"
Mounting Thread	1" – 12 UNF
Flow Rate	25 gpm (94.6 lpm)
Flow	3/4" flow
Shell Thickness	0.020
Gasket Material	Buna N
Collapse (Min.)	150 psid (10.3 bar)
Burst (Min.)	250 psi (17.2 bar)
Max. Operating Temp.	250°F (139°C)
Min. Operating Temp.	-20°F (-28.9°C)

*Particulate Removing, **Water Sensing, ***Detects Phase Separation

Available Adapters

Part/Model Number	Description
.75N1-12	3/4" NPT Inlet/Outlet Ports, 1" – 12 UNF (cast iron)
.75N1-12A	3/4" NPT Inlet/Outlet Ports, 1" – 12 UNF (aluminum)
1.0N1-12	1" NPT Inlet/Outlet Ports, 1" – 12 UNF (cast iron)
1.0N1-12A	1" NPT Inlet/Outlet Ports, 1" – 12 UNF (aluminum)
.75B1-12	3/4" BSP Inlet/Outlet Ports, 1" – 12 UNF (aluminum)
1.0B1-12	1" BSP Inlet/Outlet Ports, 1" – 12 UNF (aluminum)