




Glossary of Terms

<u>TERM</u>	<u>USAGE</u>
Aerosol	Submicron particles suspended in air, gas or vapor. A fog, fume, or smoke.
Bulk Density	Ratio of total mass or weight of the material divided by the volume of the material (includes void volume in the case of solids).
Coalesce	To unite small droplets of one liquid preparatory to its being separated from another liquid. Filter/coalescer cartridges coalesce small water droplets present in water contaminated fuel and certain oils into larger drops which are then separated by gravity.
Continuous Phase	The basic product flowing through a filter or filter/separator which continues on through a system after being subjected to solids and/or water removal.
Delta P	See "Pressure Drop" on reverse.
Discontinuous Phase	The phase dispersed in the continuous phase; water is a discontinuous phase to be separated from a hydrocarbon liquid or from air or gas.
Drop	The quantity of liquid which makes up one spherical mass; a liquid globule.
Droplet	A small drop which may coalesce to form larger drops.
Effluent	Stream of fluid at the outlet of a filter or filter/separator. Opposite of influent.
Emulsion	A dispersion of fine droplets in the continuous phase.
Fiber Migration	Carry-over of fibers from filter or separator media material into the effluent. Fiber migration is a qualitative part of total media migration.
Filtrate	The fluid which has passed through filtering media. Also referred to as effluent from filters.
Gravity Separation	Separation of immiscible phases resulting from a difference in specific gravity.

Hydrophilic	Water accepting or water wettable. Opposite of hydrophobic.
Hydrophobic	Water repelling. Lacking affinity for water. Opposite of hydrophilic.
Immiscible	Liquids which are mutually insoluble; opposite of miscible.
Influent	Stream of fluid at the inlet of a filter or filter/separator. Opposite of effluent.
Media Migration	Carry-over of fibers and particles from filter or separator media material into the effluent. Includes fiber migration, expressed as milligrams per liter.
Miscible	Liquids which are mutually soluble. Opposite of immiscible.
Pressure Drop (Delta P: ΔP)	The difference in pressure between two points, generally at the inlet and outlet of a filter or a filter/separator. Measured in pounds per square inch, inches of mercury, kilograms per square centimeter, kilopascals (kPa) or bars (1 bar = 14.5 psi). (Also commonly referred to as Delta P or differential pressure.)
Specific Gravity	The ratio of weight of a fluid to the weight of an equal volume of standard substance; i.e. water for solids and liquids, and air or hydrogen for gases.
Static Generation	Unbalanced or net electrical charge produced in a flowing hydrocarbon liquid.
Surfactants	Surface-active agents, which are also called detergents, emulsifiers, or wetting agents. Polar compounds. (Most surfactants in jet fuel can be removed by clay treatment.)
Three-Stage	A filter/separator vessel containing coalescers, separators and 3rd stage monitor cartridges (e.g. CDF [®] cartridges)
Two-Stage	A filter/separator containing two kinds or types of cartridges (coalescers and separators).
Velocity	The time rate of motion or speed in a given direction.
Viscosity	A molecular property of fluids: the friction of molecular motion. A more viscous fluid has a higher pressure drop at a given rate of flow, as compared to a less viscous fluid.



Velcon products are sold and serviced by a world-wide representative network. To order, contact Headquarters or your **LOCAL REPRESENTATIVE**:

COMPANY HEADQUARTERS:
 Velcon Filters, LLC
 1210 Garden of the Gods Road
 Colorado Springs, CO 80907-3410
 Phone: 1.800.531.0180 / 1.719.531.5855
 Fax: 719.531.5690
 e-mail: vfsales@velcon.com
 www.velcon.com

MANUFACTURING PLANTS LOCATED AT:
 Colorado Springs, Colorado
 Sylacauga, Alabama
 Henryetta, Oklahoma

OFFICES AND AFFILIATES IN:
 Canada, Germany, Singapore, & Spain



**Liquid Filtration
 and Separation
 Specialists**