

THE CLARIFIER

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Velcon Hits Double-Header

Velcon Filters Acheives ISO 9001 Certification

Colorado Springs, CO – On October 19, 2000, Velcon Filters, Inc. announced that it had achieved ISO 9001 Certification of Registration for its Alabama and Colorado facilities. An internationally recognized quality management and assurance system, ISO 9001 Registration ensures quality products as well as efforts at continuous improvement.



Velcon's Alabama employees show off the new ISO 9001 banner in front of the manufacturing plant in Sylacauga, AL.

Dave Taylor, company president, noted, "At Velcon Filters, our goal is to dazzle our customers with solutions, quality, and performance that let them sleep easy. These solutions filter, separate, handle and analyze liquids and gasses for our customer. Now with this ISO Registration, a knowledgeable third party has confirmed that we have a system in place to do exactly that."

(Continued on page 2)

Velcon Filters Qualifies to API 1581, 4th Edition

Colorado Springs, CO – Velcon Filters, Inc., an industry leader in the fuel filtration market, announced on November 17, 2000 that it passed a qualification test series to the M100 Category (for thermal stability enhanced military aviation turbine fuels) of the API/IP Specification 1581, 4th

Edition. Qualification to M100 permits qualification to Category M Filter/Separators (for military aviation turbine fuels) and Category C Filter/Separators (for commercial aviation fuels). Several commercial and military representatives from the aviation fueling industry witnessed the testing.

(Continued on page 3)

CONTENTS

AS ³ 2001	2
Cleaning of Teflon [®] Coated Screen Separators.....	2
API 1581 4th Edition Testing, cont'd.....	3
Q & A	3
Velcon Supports United Way.....	4



AS³ 2001 – The Aviation Services and Suppliers SuperShow

Join Velcon Filters and hundreds of other aviation ground support companies in Long Beach, CA next year for the Aviation Services & Suppliers SuperShow (AS³). Velcon Filters will have a booth at the show, which takes place May 1 - May 3, 2001, at the Long Beach Convention Center. We certainly hope to see many of you there!

Cleaning of Teflon[®] Coated Screen Separators Saves Money!

Most of our customers know about the TCS separator cleaning and testing procedures found on our Data Sheet No. 1242. Some of our newer customers may not be aware of the economics of purchasing the TCS separators which can be cleaned and reused a large number of times.

Often, we see customers (long time users and new customers) installing new TCS separators at each coalescer changeout. We appreciate the repeat business on the separators! However, we want to remind our customers of the cost savings when the TCS

separators are cleaned and reused.

Some customers don't want to take the time to clean the TCS separators at changeout time, saying they want to get the vessel buttoned up as soon as possible. To these customers we recommend getting a spare set of TCS separators, which can be kept on the shelf, cleaned at a convenient time, and are ready for installation at the next coalescer changeout. Having a spare set on the shelf is lots more

economical than purchasing new TCS separators at each changeout!

Contact Velcon's Literature Department, 800-531-0180, x227, to request a copy of Data Sheet 1242.

Teflon[®] is a registered trademark of the E.I. du Pont de Nemours & Co., Inc.

Velcon Filters Achieves ISO 9001 Certification

(Continued from Page 1)

As stated on the ISO 9001 Certificate of Approval from Lloyd's Register Quality Assurance, the quality management system is applicable to the "design and manufacture of aviation fuel filters for airports, refineries, pipelines, industrial/utility applications, military applications, and other related industries."



ISO 9001 banner proudly displayed with employees at Velcon's Colorado headquarters.

Frequently Asked Questions & Answers

Q **Concerning microbial growth in filters:** How does a Biocide such as 'Kathon' work? It can't just make the bugs disappear. Does it turn them into something that goes into solution and if so, does it go with the fuel or the water? Or, does it kill the bugs so that they turn into dead particles? If so can they be removed by filtration? Are dead bugs bigger than live ones?

A *Biocides kill the bugs, however, the bug carcasses are still present. These need to be filtered out, just like particles. However, they are semi-solid, and could "squeeze" through the media, if dP went too high.*

Q In which phase does the Biocide reside? If in the water phase, is its dosage level and thus effectiveness reduced by the coalescer if water is present? Is Biocide a surfactant?

A *Biocides work at the interface, where the bugs have water and a food source (fuel). So any biocide will be at least slightly surface active and affect water coalescence at least slightly. We think the manufacturer will have to recommend dosage levels and the affect of any water.*

Q With Biocide dosed fuel is the filter performance impaired for coalescers and/or monitors? Can Clay remove bugs or only surfactants? Could Clay actually be a breeding ground for microbial growth? Would Clay remove the Biocide?

A *We believe that clay can remove the biocide, if surface-active as above. Breeding ground for bugs is ANYWHERE there is water present, since they need both water and fuel to live and grow. Anywhere water could be present (even in clay) is a breeding ground. Coalescers are prime breeding grounds, since they capture lots of water. Not sure what the size of the bugs are, probably varies, but we believe they are in the 0.5 - 1 micron size range, like bacteria. If they are smaller, then substantial amounts will get through coalescers.*

Q Bottom line is: Is there a filtration solution to get microbiological growth out of jet fuel? Can you make some recommendations?

A *Concerning filtration, we do supply a very tight FO filter to some applications. This is usually referred to as our 1/4EX model. This has very tight fiberglass paper in it.*

API 1581 4th Edition Testing

(Continued from Page 1)

This test series will allow qualification by similarity into filter/separator vessels used in fuel systems where the fuel contains various additives, including static dissipator, corrosion inhibitor, anti-icing additive, and the newest additive used by the US Air Force, the +100 additive. The tests were conducted using commercial flow rates which are higher than current military flow rates. This enables Velcon to readily convert existing commercial filter/separators with API 1581 4th Edition elements.

The new patent-pending coalescer design utilizes state-of-the-art features to better cope with the latest in fuel additives. The new coalescer was so effective that current Teflon[®]-coated screen separators were adequate for water separation.

Velcon Filters, Inc. serves a variety of markets with a broad range of fluid clarification products. Velcon's Colorado Springs location includes company headquarters as well as engineering, research and development, and the largest indoor jet fuel testing lab in the world. The majority of Velcon's filter elements are manufactured at Velcon's largest and newest facility in Sylacauga, Alabama. Our ASME code certified steel and aluminum filter housings and portable filter systems are manufactured at our plant in Harlingen, TX. Velcon products are marketed throughout the United States as well as internationally, with sales affiliates in Canada, Europe, and the Far East.

Velcon Supports United Way

Velcon Filters recently held a fundraising program for the Pikes Peak United Way. One of the most popular events was the pie-throwing contest, featuring company president Dave Taylor as one of the targets. Sheryl Farris in Order Entry and Scott Harshman, VP Manufacturing Operations, also volunteered to be targets. Some of our distributors contributed to the cause, one of whom specified Ben Taylor, Industrial/Utilities Sales Manager, as a pie recipient. Although he had not volunteered initially, Ben was a good sport and took a few pies as well. In addition to the pie-throwing, Velcon's United Way activities included a silent auction, dart-throwing, model car races, and guess the total weight of the employees.



Joan Scher, Purchasing, throws a pie in President Dave Taylor's face as Sheryl Farris, Ben Taylor, and Scott Harshman look on.

If you know anyone who would like to receive *The Clarifier*, fax their name, company and address to:



We also welcome your comments and suggestions on topics covered in *The Clarifier*.

Velcon Filters, Inc.
Attn: Robin Mason
4525 Centennial Blvd. Colorado Springs, CO 80919-3350
Phone: (719) 531-5855
Fax: (719) 531-5690
e-mail: vfsales@velcon.com

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