

.....
Velcon Filters, Inc.

Service Bulletin

May 21, 2007

Vol. 6 Number 1
.....

MIGRATION OF SUPER ABSORBENT POLYMER (SAP) MEDIA DOWNSTREAM OF FILTRATION

In "The Clarifier" newsletter, dated January 2007 we discussed migration of SAP media. The following is Velcon's current position on this subject.

Apart from the issue concerning use of water absorbing monitors/cartridges with FSII, Velcon Filters, Inc. has always believed that any migration of SAP from monitors would be extremely small, and our experience of supplying monitors over the last twenty years clearly supported this position.

IATA (International Air Transport Association) Fuel Monitor Task Force recently completed its report on the "Investigation of Super Absorbent Polymer (SAP) Migration in Commercial Aviation Turbine Fuels". The IATA report's conclusion supports Velcon's position as they found only trace quantities of SAP in on-board fuel filters compared with other contaminants.

Velcon Filters, Inc. continues to work with API/EI (Energy Institute, formerly IP) and the aviation industry to make improvements to our water absorbing monitors. During the next few months we will be refining our manufacturing process to significantly reduce the already extremely low levels of loose particles of SAP on the "clean side" of the manufactured cartridges.

In addition to new manufacturing techniques we will monitor SAP migration on an ongoing basis by analyzing membranes from effluent samples of production cartridges with copper sulfate water solution.

As mentioned previously, operators using monitors should use the following guidelines:

- Attention to housekeeping at all points in the fuel supply chain is critical
- After installing new cartridges, circulate flow through the vessel for 3 minutes and return fuel to tank storage
- Monitor differential pressure and calculate what the DP would be at normal rated flow. Refer to Velcon's Form #1846. Velcon has also recently introduced a Flow Differential Pressure Module (FDPM) to the industry. Please see Velcon's Clarifier newsletter, Vol. 17 No. 1, dated June 2006 (<http://www.velcon.com/doc/Clar0606.pdf> , page 2). Also see Data Sheet #1966 (<http://www.velcon.com/datasheet/1966FDPM.pdf>).
- Do NOT use monitors if FSII (Fizzy®, Prist®, DiEGME) is present in the fuel – see Velcon's Service Bulletin May 30, 2006: <http://www.velcon.com/doc/Vol5-No1-05.30.06.pdf>

- Consult with your company's fuel handling procedures and review Velcon's Operating Procedures: <http://www.velcon.com/doc/1839.pdf>

In addition to monitor cartridges, Velcon Filters, Inc. has recently introduced the VCA Series Contaminant Analyzer for continuously detecting solids and water in fuel. For more information please refer to Velcon's Clarifier newsletter, Vol. 18, No. 1, dated January 2007 (<http://www.velcon.com/doc/Clar0107.pdf>, page 3) and Data Sheet # 1964 (<http://www.velcon.com/datasheet/1964VCA.pdf>).



Service Bulletin is published by the Marketing Services Department of Velcon Filters, Inc.
Please address all comments or questions to Robin Mason.
1210 Garden of the Gods Road • Colorado Springs, CO 80907-3410 • 719.531.5855 • FAX: 719.531.5690
E-mail: vfsales@velcon.com / Web Site: www.velcon.com