



Coalescer/Separator Cartridges

for Aviation Fuel

Qualified to API/EI* 1581 5th Edition

**The following products
have been fully qualified
to the specification:
API/EI 1581 5th Edition**

COALESCERS

The **I-6xxC5 (TB)**, **I-6xxMM**, and **I-6xxA4 Series** coalescers ("xx" denotes nominal cartridge length) incorporate multi-layered pleated media designed to provide superior dirt holding capacity in the field, combined with 0.4 micron efficiency. The **I-6xxC5 (TB)** replaces both Velcon's **I-6xx85 (TB)** and **I-6xx87 (TB)** cartridges. These cartridges are available in either threaded base or open-end configuration. For more information concerning coalescer dimensions and general specifications please refer to Velcon's data sheet #1732.

SEPARATORS

The **SO-6xxV5**, **SO-6xxPV5**, and **SO-6xxVA5** are Teflon[®] Coated Screen (TCS) cartridges. **SO-6xxVSN**, **SO-6xxPVSN**, and **SO-6xxVASN** are **synthetic separator cartridges**. To achieve optimum flow distribution all of these cartridges incorporate a variable hole pattern inner tube combined with a uniform hole pattern outer tube specifically designed for installation in vertical filter/separators. Please refer to Velcon's data sheet #1521 for overall separator dimensions and general specifications.



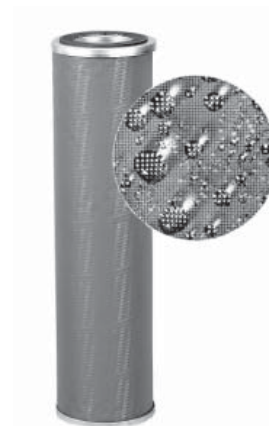
**Teflon[®] Coated
Screen Separators**



**I-614C5TB
Coalescer**



Synthetic Separators



**Close-up of water being
repelled by separator**

*Institute of Petroleum (IP) merged in 2003 with the Institute of Energy, forming the Energy Institute (EI). All former IP technical publications have now been rebranded EI technical publications, including the joint API titles (aviation fuel handling and hydrocarbon management).

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

Velcon Filters, Inc. has tested and qualified a comprehensive range of products to meet the API/EI 1581 5th Edition Specification. For a complete listing of Velcon's current qualification tests, please view the following web page: <http://www.velcon.com/vessels/vessel.html> or, go to our home page, www.velcon.com, click on "Products" along the top menu - below that click "Vessels" and across to "Vessel info".

The categories for this specification are:

CATEGORY C

This category replaces the previous class A, B, & C of API/IP-1581 Third Edition. Velcon's new coalescer cartridges that meet Category C requirements are the **I-6xxC5 Series** ("xx" denotes nominal cartridge length). These cartridges have been developed to provide better water removal performance in surfactant-laden fuels, and improved filtration efficiency combined with longer life. Category 'C' cartridges can be used at any point in the fuel distribution system – from refineries to into-plane fueling.

All of Velcon's TCS Separator Cartridges are qualified for Category C.

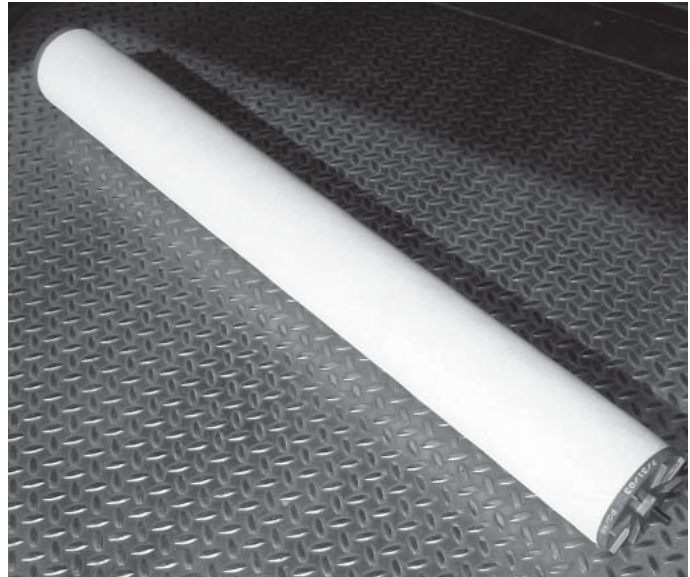
CATEGORY M

This category covers military fuels, such as JP8 (similar to Jet A but containing anti-icing and other additives). Velcon's coalescer products for this category are the **I-6xxMM Series** cartridges. The separators for this category are currently TCS Separators **SO-6xxV5**, **SO-6xxVA5**, and **SO-6xxPV5**, as well as **Synthetic Separators SO-6xxVSN**, **SO-6xxPVS**, and **SO-6xxVASN**.

Category M qualified cartridges also qualify for Category C.

CATEGORY M100

This category is for military fuels such as JP8+100. The '+100' additive allows fuels to run at higher operating temperatures and reduces maintenance for high performance military jet engines. Velcon's coalescer cartridges for the M100 Category are the **I-6xxA4 Series**. The TCS Separators for M100 are currently the **SO-6xxCM** and **SO-6xxGS** (three-stage).



I-644C5TB

ADDITIONAL INFORMATION

The 5th Edition also allows operators to incorporate third stage filter cartridges with each category. Velcon has currently qualified the CDF[®]-2xx Series monitor (water absorbing) cartridges for Category C and the FOW-2xx Series filter cartridges for Category M100.

Another aspect of the API/EI 1581 5th Edition specification is the description of filter/separators as Type S (water and dirt), Type S-LW (for applications where low amounts of water are expected) and Type S-LD (for applications where low amounts of dirt are expected). Products qualified for Type S are also qualified for Types S-LD and Type S-LW.

To obtain your authorized Velcon API/EI 1581 5th Edition Similarity Data Report for existing vessels, please complete data sheet #1728, "Fast Fax" form.



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

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