



Cartridge Construction

VOKES Microfelt cartridges combine high efficiency filtration with a performance which is consistent and reliable. Furthermore, they are both lighter and stronger than conventional elements.

When selecting a filter cartridge consider whether any other cartridge can offer the ten key benefits available with Vokes Microfelt.

Filter Media

1. Microfelt cartridges contain specially developed synthetic felt media manufactured to VOKES specifications. Unaffected by water, salt or engine acids, the filtration characteristics of the media are assured by an exceptionally even density.
2. Precision pleat separation using specially selected spacing materials, gives an efficient flow of oil through the cartridge and maximum use of the filter media. High Collapse pressure cartridges have plastic waterproof spacers.
3. The two ends of the media are joined together by high frequency welding, eliminating the risk of channelling which can occur with the use of adhesives, stapling or sewing.

Cartridge Assembly

4. The cartridge assembly is firmly supported by inner and outer perforated metal cylinders, giving relatively high collapse and burst resistance.
5. Metal components are deburred to remove any fragments which could become detached while in service and contaminate the oil.
6. To protect the cartridge from corrosion, metal components are protected by an electrophoretic paint finish. Aggressive fluid cartridges are manufactured with a phosphate finish.
7. The edges of the pleated filter media are bonded to the end caps with a thick layer of polymer based cement. This prevents leak paths and ensures that the pleats remain evenly spaced even under high pressure conditions.
8. A leak proof seal between the clean and dirty side of the filter is achieved with high nitrile sealing rings, which are seated and mechanically locked into recesses within the metal end caps.

Quality Control

- Special attention is given to cleanliness during manufacture to prevent the inclusion of potential contaminants within the cartridge. All filter media is batch tested for filtration efficiency prior to cartridge assembly.
- VOKES Limited is quality assessed to ISO 9001 covering all aspects of design, manufacture and quality control.



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The company reserves the right to change specifications without notice. Freedom from patent restrictions must not be assumed.

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