

Industrial Applications

Oil Filter

Porex helps an oil filter manufacturer develop a cost-effective, easy-to-replace filter in a range of efficiencies for use in home heating systems. The Porex porous oil filter offers significant advantages over traditional felt and sintered filters due to a flexible design that provides varying shapes, sizes and filtration efficiencies.



Design Challenge

An oil filter manufacturer requested Porex's assistance in developing cost effective filters for home heating systems that would replace existing parts made from felt and/or sintered metal. In addition to a requirement for easy replacement, functional criteria included high oil flow and a range of filtration efficiencies.

Solution

Using the existing oil filter as a basis, Porex engineers worked with the manufacturer to develop different filtering efficiencies in varying shapes and sizes. The cartridge connection featured an insert-molded PP base that incorporated a threaded fitting providing for easy replacement. Porex engineers used PE materials with different average pore sizes to obtain different filter efficiencies as well as developing special shapes to achieve a higher filter surface area.

Results

The Porex porous oil filter offers a significant advantage over traditional felt and sintered brass filters due to flexible design capabilities that provide varying shapes, sizes and filter efficiencies. Porex now produces a wide range of oil filters to meet various application needs.

By combining ideas, know-how and proven results with the highest standard of innovation and excellence, POREX Porous Media provides unique solutions for various applications.

POREX

©2006 Porex Corporation. Porex is a registered trademark of Porex Corporation. All rights reserved.

PPG-220-071706-00

www.porex.com 800.241.0195

Porex Technologies

500 Bohannon Road
Fairburn, GA 30213 USA

E-mail: porous.info@porex.com

770.964.1421 Phone
770.969.0954 Fax

Porex Technologies GmbH

Sales & Marketing Europe
Strangenhäuschen 30
52070 Aachen, Germany

E-mail: info@porex.de

+49 241 910525-0 Phone
+49 241 912426-16 Fax

Porex Technologies Sdn Bhd

Lot P.T. 74, Jalan Hulu Tinggi 26/6
Seksyen 26, Sektor A
Hicom Industrial Park
40400 Shah Alam,
Selangor, Malaysia

E-mail: sales@porex.com.my
+603 3343 4828 Phone
+603 3341 3308 Fax