
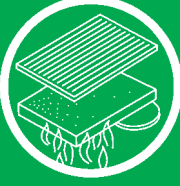



## Product fact file – Key development projects

	Clean coal technology	Key developments
	<p>Porvair is a leading provider of high temperature filters to the coal gasification industry. Coal gasification plants convert coal or petroleum coke into synthetic gas, which is then used to fuel gas fired power stations. Porvair specialist filters are an integral part of the gas production process operating at high temperatures to remove particulate from the gas stream. Coal gasification plants enable coal to be used as a fuel with minimal environmental impact compared with traditional coal fired power plants.</p>	<ul style="list-style-type: none"> <li>• A further suite of filters delivered as part of the SG Solutions US\$20.0 million supply agreement</li> <li>• Joint development agreement signed with a major oil company and leading gasification technology provider</li> <li>• Trial and pilot plant orders delivered to a range of customers</li> </ul>
	Diesel emission technology	Key developments
	<p>Porvair is developing a unique range of porous metals. Metpore™ can be made in many alloys, in many shapes and with a variety of densities and porosities. It is ideal for use in diesel exhausts because it is robust, carries a catalyst well and exhibits excellent deep bed filtration characteristics.</p>	<ul style="list-style-type: none"> <li>• Laboratory trials using Porvair metal foam successful</li> <li>• Field trials with Deutz AG to run throughout 2007</li> <li>• Several exhaust specialists evaluating metal foam as part of complex solutions to meet the next generation of emissions standards</li> </ul>
	Fuel cell technology	Key developments
	<p>Porvair produces high performance low cost bi-polar plates for the fuel cell industry. The Porvair plate material is unique in the industry and offers fuel cell manufacturers outstanding electrical properties, low density and a compact design for static and vehicle fuel cells. A typical Porvair plate has in-plane conductivity exceeding 600S/cm and through plane contact resistance of less than 10mohms-cm<sup>2</sup>, is 30% lighter than competitive materials and can be manufactured with a web thickness of less than 0.4mm.</p>	<ul style="list-style-type: none"> <li>• Successful qualification trials for latest generation plates and tight manufacturing process control demonstrated</li> <li>• First order for latest generation of plates received</li> <li>• Qualification trials for next design specification throughout 2007</li> </ul>
	Bioscience devices	Key developments
	<p>Porvair's specialist laboratory filter systems are approved for use in the pharmaceutical and drug industries. Porvair's treated porous plastic products are used in a diverse range of applications including diagnostic devices, laboratory testing kits, medical devices and pharmaceutical production.</p>	<ul style="list-style-type: none"> <li>• First pharmaceutically approved component in commercial production</li> <li>• Beta test launch of bioscience separation device planned for Q1 2007</li> <li>• Several separation devices in prototype development</li> </ul>
	Infra-red combustion plates	Key developments
	<p>Porvair's Metflame™ metal foam is a highly efficient infra-red emitter that is capable of reaching uniform temperatures of 1150°C nearly instantaneously. When compared with alternative materials, Metflame is more energy efficient, robust and corrosion resistant. It is suitable for industrial drying, cooking and heating applications.</p>	<ul style="list-style-type: none"> <li>• Introduction of an atmospheric burner for use in residential and commercial grilling and space and patio heating</li> </ul>
	Molten metals filtration	Key developments
	<p>Porvair's ceramic filters offer a cost effective way to remove small inclusions from molten metal and so produce high purity metals. Porvair Selee pioneered the development of ceramic foam filters for this use and is the world leader in the filtration of cast house aluminium. Metal filtered through Selee filter systems is used in applications ranging from automotive parts to beverage cans and aerospace turbine blades.</p>	<ul style="list-style-type: none"> <li>• Agreement reached with a major precision investment casting company to supply a new range of metal alloy handling equipment</li> <li>• Engineered Ceramics, makers of molten metal handling equipment, had a second successive record year</li> </ul>
	Aerospace filtration systems	Key developments
	<p>Porvair designs and manufactures specialist filtration components and assemblies for contamination control in hydraulic, fuel, lubrication and air systems to the exacting technological and quality specifications set by the aerospace and defence industries. Porvair's filters protect vital sub-systems such as flight controls, fuel management, thrust reversers, braking and steering, power generation and air intakes in aircraft, helicopters, military vehicles and spacecraft.</p>	<ul style="list-style-type: none"> <li>• US\$5.0 million, 5 year contract signed for a filter system for Airbus</li> <li>• US\$1.0 million aircraft retrofit programme won in the year</li> <li>• Aircraft fuel tank inerting system developed in association with Parker Hannifin for Boeing expected to start in Spring 2007</li> </ul>