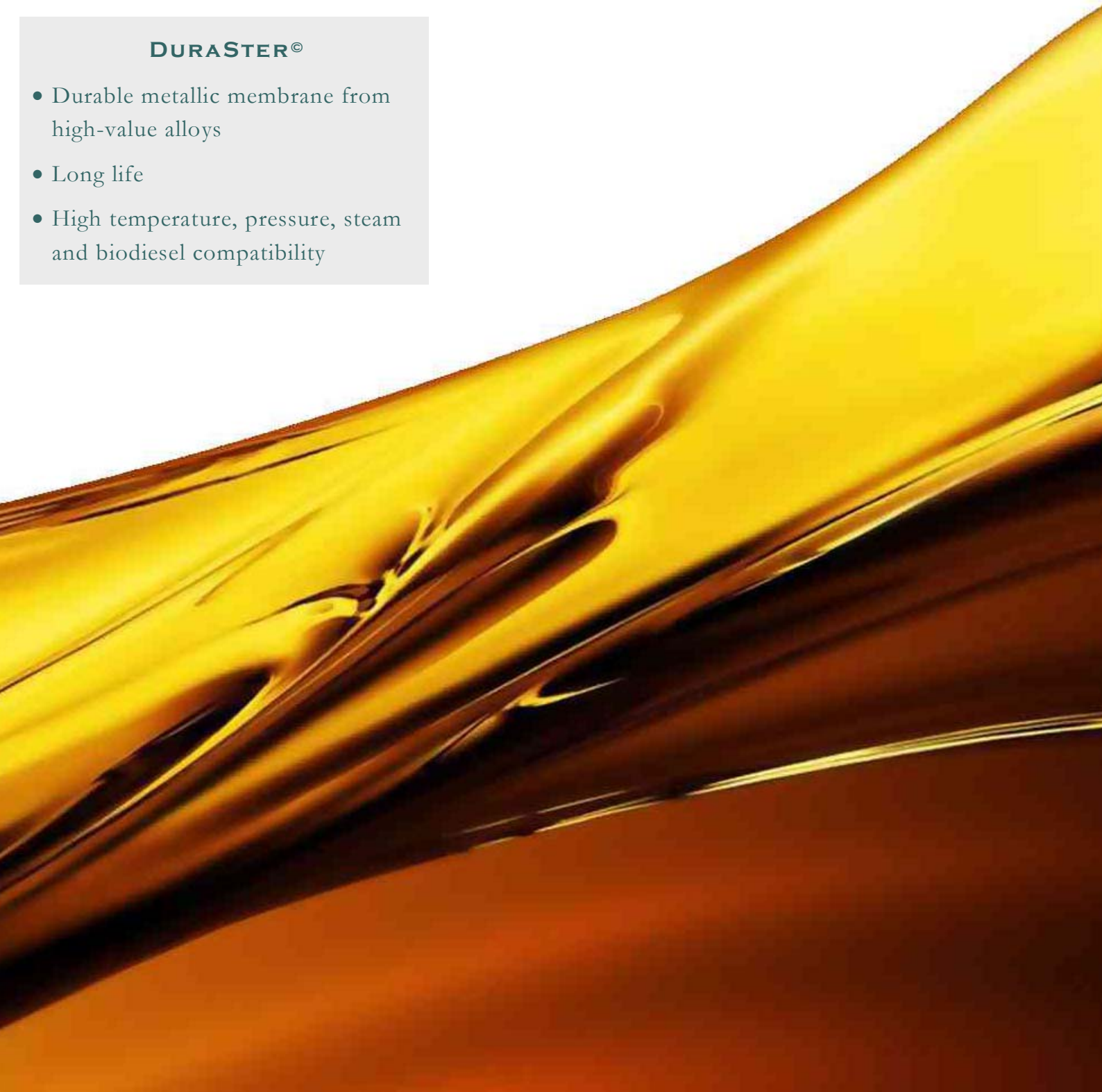


ADVANCED MATERIAL SOLUTIONS

DURASTER® METALLIC
MICROFILTRATION MEMBRANES FOR
BIOFUELS

DURASTER®

- Durable metallic membrane from high-value alloys
- Long life
- High temperature, pressure, steam and biodiesel compatibility





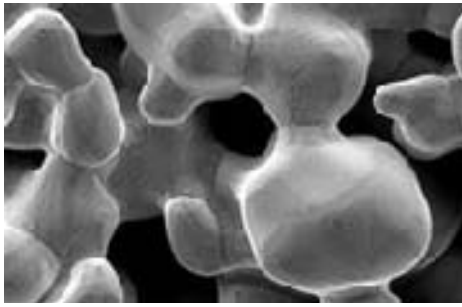
Biodiesel Crossflow Filtration System

BULLETPROOF INDUSTRIAL FILTRATION

Advanced Material Solutions (AMS) can supply fully automated, complete DuraSter® crossflow membrane microfiltration systems or DuraSter® membranes in membrane modules or trains. The AMS DuraSter® range of metallic microfiltration membranes offer a new level of performance, corrosion resistance, and durability in crossflow membrane micro-filtration.

The DuraSter® membranes have a uniform pore size distribution and a high percentage of open area, which lead to higher flux compared to other crossflow membranes. They are suitable for high pressure, high temperature, high and low pH and can offer high resistance to corrosion and oxidization in aggressive media. They are highly resistant to thermal and pressure shock. They can be repeatedly cleaned, using caustic and acid, solvents or steam, back to day-one performance. An investment in AMS DuraSter® membranes or systems is an investment in robust, long-term, high performance crossflow with no worries and no cartridge replacement.

The DuraSter® membrane is a proven performer on biodiesel, bringing difficult feeds into specification for TC and cold soak, and even reducing dissolved sulfur content.



*Scanning Electron Micrograph of Filtration
Membrane Surface*



[Metal Injection Moulded Components

NO SEAMS, NO WORRIES

Using a unique, patented process, AMS manufacture the DuraSter® range of tubular metallic microfiltration membrane from 3-30mm diameter in lengths up to 1600 mm with no welds. No other metallic membrane manufacturer in the world can match this. The membranes are then modularized using a high impact- and temperature-resistant composite resin compatible with chemical and steam cleaning. Resin options include certified food grade and compatibility with a client-specific products and processes.

The resulting DuraSter® metallic membrane module is thus virtually “bulletproof” - no weak points for corrosion to begin, capable of operating at pressures up to 10 bar and temperatures of 200 °C at a pH in the range of 0 to 14.

HIGH VALUE MATERIALS—HIGH DURABILITY AND COMPATIBILITY

The DuraSter® range of tubular metallic microfiltration membranes and modules can be made from any of several alloys, ranging from 300 series stainless steels to Duplexes, Super Duplexes, High Nickel Alloys or Titanium. Thus the metallurgy of your membrane or filtration system can be selected to suit your process and products.

INDUSTRIES SERVED

- ◆ *Biofuels*
- ◆ *Chemical production*
- ◆ *Food and beverage*
- ◆ *Pharmaceutical*
- ◆ *Mineral processing*
- ◆ *Water and Wastewater*
- ◆ *Pulp and paper*


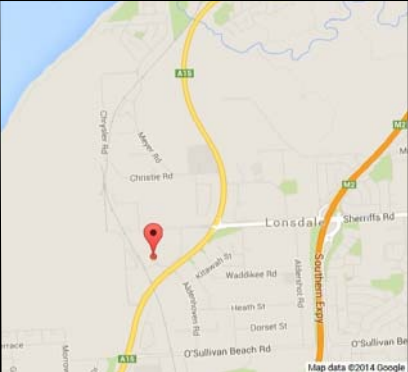
APPLICATIONS AND PROCESSES

- ◆ *Removal of TC from feedstock and finished biofuels*
- ◆ *Chill-proofing*
- ◆ *Sulfur reduction*
- ◆ *Effluent stream processing*
- ◆ *Steam filtration*
- ◆ *BOD reduction*
- ◆ *Chemical recovery*
- ◆ *Fouling protection on RO systems*



*AMS Vacuum/Hydrogen Sintering
Furnace with Metallic Membranes*

FOR MORE INFORMATION PLEASE CONTACT

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