

Edilon

A Unit of Robbins & Myers U.K. Ltd.



**Corrosion Resistant
Fluoropolymer Coatings**
Smart Solutions

Bolt Circle

End User Benefits

Superior Substrate Adhesion

Full Vacuum Processing

Lower Surface Porosity

Higher Abrasion Resistance

Superior Thermal Cycling Resistance

Excellent Surface Release

High Product Purity

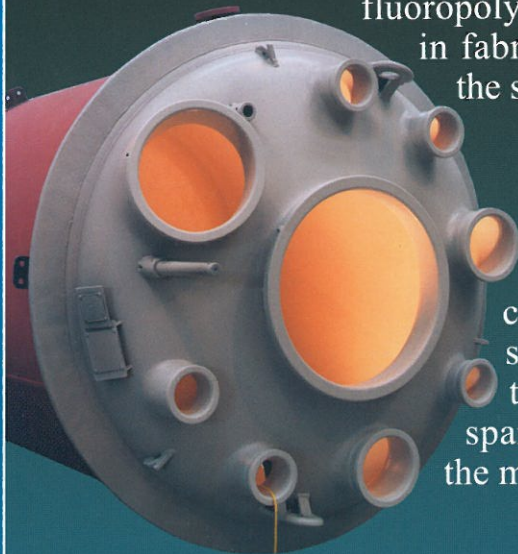
Internal & External Protection

Applicable to New & Used Equipment

Fast Manufacturing Turnaround

Technology in Corrosion Protection

Edlon, a unit of Robbins & Myers U.K. Ltd., together with our sister company Edlon in America have been serving the chemical industry for over 30 years with fluoropolymer linings and coatings for all types of chemical processes. Edlon combines the unique characteristics of fluoropolymers with our unmatched track record in fabrication and design technology to find the smart solution to almost any application.

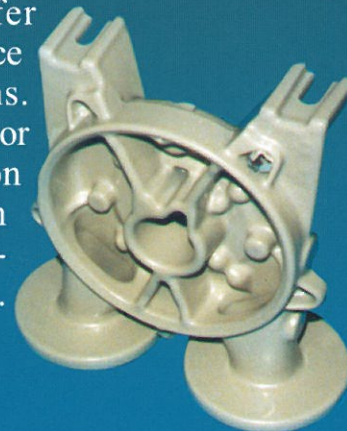


Quality Control

Systems are in place throughout the process to ensure that products consistently achieve the required specification. Testing includes coating thickness measurement, high voltage dc spark test and any other requirements of the manufacturing code.

The Products

Edlon's proprietary SC7005 (PFA), SC2001 (ECTFE), SC3001 (PVDF) and SC5001 (ETFE) coating systems offer outstanding yet cost effective all round performance under the most extreme process conditions. Coating thicknesses range from 0.25mm on exterior non-exposed surfaces to 1.00mm or greater on exposed or wetted surfaces and are repairable in the field. Edlon technicians can make repairs on-site or they can provide field repair training.



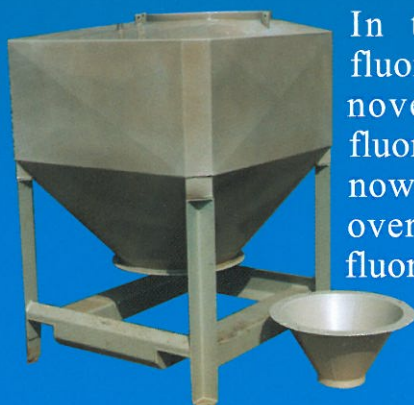
Manufacturing Capability

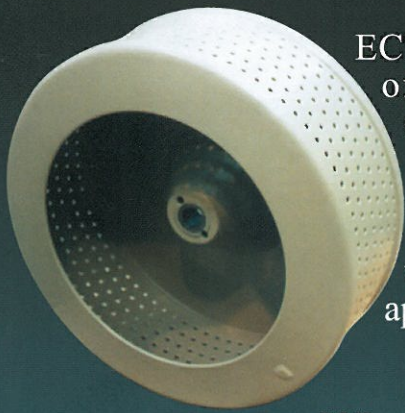
Our advanced facility can undertake the complete service from design to metalwork fabrication to coating and, subject to complying with our Fabrication Specification 93-2003, we can recoat existing equipment or new free-issue parts.



Fluoropolymer Coatings

In the 1970's, Edlon, already a major fluoropolymer materials fabricator, developed novel technology for applying thick film fluoropolymer coatings to metal surfaces. This now patented technology has been extended over the years to cover a range of different fluoropolymers capable of handling the diverse range of chemicals on the market today.





Why Edlon SC2001 (ECTFE) ?

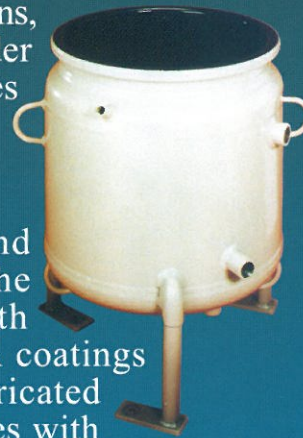
ECTFE (Ethylene Chloro-trifluoro Ethylene) offers excellent chemical resistance in environments operating under 150°C with an extremely smooth, tough, abrasion resistant finish. This is also available in a static dissipative version designated SC2001CG which has been formulated for those applications where static buildup is a problem.

Why Edlon SC3001 (PVDF) ?

PVDF (Polyvinylidene fluoride) offers good chemical resistance to most acids and bases up to 120°C and to bromine to 65°C. It has a smooth hard finish and offers superior resistance to mechanical damage.

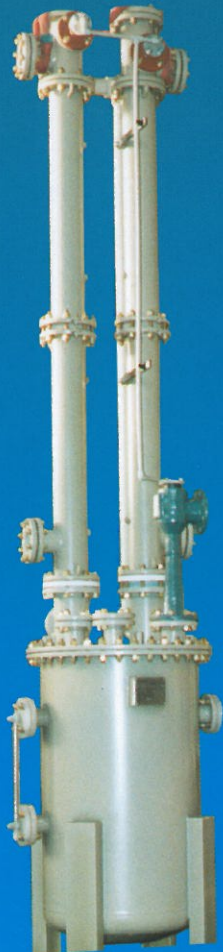
Why Edlon SC5001 (ETFE) ?

ETFE (Ethylene Tetrafluoroethylene) offers exceptional chemical resistance to strong acids, gases, aromatic hydrocarbons, alcohols and esters in environments operating under 155°C. It also offers lower vapour permeation rates than other fluoropolymers.

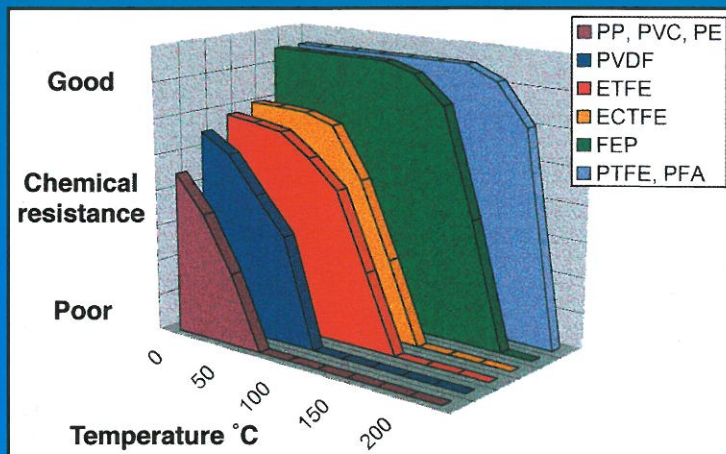


Why Edlon SC7005 (PFA) ?

PFA (Perfluoroalkoxy) has the best all round chemical and temperature resistance of all the established thermoplastic fluoropolymers, with general properties closely matching PTFE. PFA coatings have long been a standard alternative to prefabricated sheet lining systems. Edlon SC7005 fully complies with FDA requirements concerning extractables so can safely be used in food and pharmaceutical applications.



Physical Properties (Material Only)	ASTM Method	Edlon SC7005 PFA	Edlon SC2001 ECTFE	Edlon SC3001 PVDF	Edlon SC5001 ETFE
Useful Service Temp (°C)	--	-50 to 204	-50 to 150	-30 to 120	-100 to 155
Specific Gravity	--	2.13 to 2.16	1.7	1.78	1.7
Tensile Strength	D638@23°C D638@250°C	276bar 124bar	483bar --	310bar --	448bar --
Ultimate Elongation	D638@23°C D638@250°C	300% 480%	200% --	50% --	275% --
Shore Hardness D	D2240	60	75	79	75
Water Absorption	D570	0.03%	0.03%	0.03%	0.03%
Thermal Conductivity W/m²K		0.18	0.16	0.18	0.21



Typical Applications

Process Vessels & Storage Tanks

Columns & Spool Sections

Agitators & Baffles

Vessel Covers & Heads

Manway & Sightglass Covers

Thermowells

Valves & Venturis

Protection Rings

Chutes & Hoppers

Drum & Pressure Filters

Centrifuges

Conveyor Trays

Blenders

High Purity Chemicals

Other **Edlon** Fluoropolymer Products



**Dip Pipes
& Spargers**



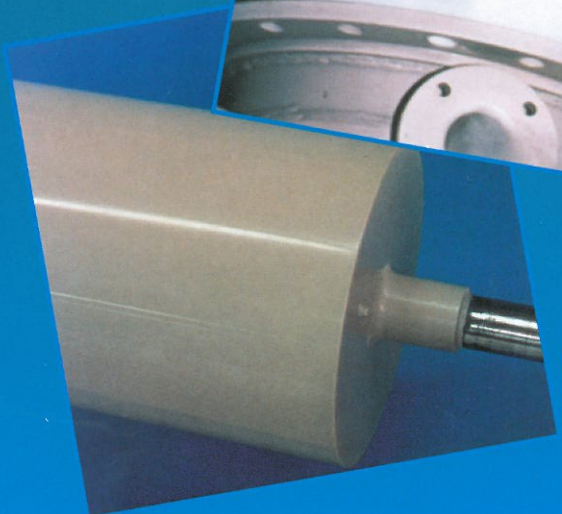
**Fluoropolymer
Sheet
Linings**



**Fluoropolymer
Pre-Engineered
Product**



**Column
Internals &
Packings**



**Roll
Covers**

**JROBBINS
& MYERS**

U.K. GROUP COMPANIES

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e-mail: sales@edlon.co.uk

Pfaunder-Balfour

Leven, Fife KY8 4RW

Tel: 01333 423020 Fax: 01333 427432

Manufacturers of glass lined steel reactor systems and vessels incorporating mixing systems, glass lined pipework, heating and cooling packages and instrumentation. In addition Pfaunder-Balfour also supply skid mounted evaporator systems (including wiped film type) in a variety of materials from stainless steel to hastelloy not forgetting glassed steel.

Chemineer

Cranmer Road, Derby DE21 6XT

Tel: 01332 363175 Fax: 01332 290323

Manufacturers of industrial agitators, mixers and heat exchangers.

Chemical Reactor Services

Unit 5, Lyon Road, Lyon Industrial Estate,
Kearsley BL4 8TG

Tel: 01204 862777 Fax: 01204 363192

An integrated customer service for glass-lined equipment and associated process plant, encompassing field service, reglassed and refurbished equipment, gaskets and PTFE components.