

UNASCO CAPABILITIES

Unasco is a highly specialised company operating in the constantly expanding and complex field of polymer processing. Pump and valve components are a major part of Unasco's product range.

Unasco traces its origins to the formation of W.S. Shamban (Australia) Pty Ltd in 1962, a joint venture between the W.S. Shamban Co. of the U.S.A. and Australian partners. In the early 1970's the W.S. Shamban Co. sold its share of the business to its Australian partners and the company became known as Unasco Pty Ltd.

Unasco's initial expertise was the processing, design and manufacture of parts made from polytetrafluoroethylene (PTFE). This remains a core competency of the company today.



Lantern Rings
Unasco manufactures pump lantern rings in a range of sizes from PTFE tube, compression moulded or extruded in-house.

Paste Extruded PTFE
Unasco can also paste extrude PTFE. This special soft valve stem packing was produced by paste extrusion.



Bearing Grade PEEK 908
Used to make bearings for pumps in the petrochemical industry. Unasco can provide X-ray analysis to confirm that the material is void free.



PPS Compound
Unasco injection moulds pump vanes and pusher rods from this special compound. Critical surfaces are moulded flat and straight. No machining of the moulded part is necessary.



Unasco has added to its areas of expertise the design and manufacture of components made from PEEK (polyetheretherketone), PPS (polyphenylene sulphide), PI (polyimide) and other high performance engineering thermoplastics.



PTFE Coating
Unasco coated this shaft with PTFE. The impeller shaft is from a pump used in the gas industry.

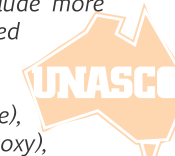
PTFE Fittings
These large, barbed fittings were moulded and machined by Unasco.



PTFE Housings
For a pump impeller.



Unasco has broadened its expertise in fluoropolymers over the years to include more recently developed materials like FEP (fluorinated ethylenepropylene), PFA (perfluoroalkoxy), ETFE (ethyleneterafluoroethylene) and PCTFE (polychlorotrifluoroethylene).



Glass Filled PTFE Valve Plugs
Unasco moulded and machined this 25% glass-filled PTFE valve plug.



Virgin and Compounded PTFE
Unasco can machine ball valve seats from ram extruded rod and tube or for large volume orders can automatically mould the finished part..



PTFE O-rings
Unasco machines O-rings and washers from ram extruded rod or automatically moulds them. Extruding its own PTFE, Unasco keeps costs down. Some of these parts are exported to China.

Tefzel (ETFE)
Unasco injection moulded these parts from virgin and glass-filled ETFE (Tefzel) for a valve attached to an acid and alkaline dosing system.

