







## RELEASE AGENTS SELECTION GUIDE

Release agents are an essential step to ensure success during mould making and casting. Not all applications require a release agent, however, they may also assist in de-moulding parts and mould longevity. We strongly recommend conducting adequate testing to ensure compatibility with your chosen systems and materials. For some applications, a combination of release agents may be required. Please contact Barnes technical support staff for further assistance at [tech@barnes.com.au](mailto:tech@barnes.com.au).

The Barnes Release Agents Selection Guide provides a summary of information on the various release agents and ancillary sprays available. For more detailed information, please visit each products page on our website and if applicable refer to the Technical Data Sheet.

Product	Application	Description
<b>E236</b>		Urethane Mold Release is specially formulated as a release agent and anti-stick lubricant for molded polyurethanes.
<b>E302</b>		A non-silicone based release agent that allows painting of moulded parts and is food grade.
<b>A324</b>		Specially formulated to release moulded silicone rubber, rubber, and similar materials. Primarily used for silicone to silicone applications.
<b>E497</b>		Formulated for epoxies, phenolics and other thermoset resins, it contains no silicones or oils. It allows molded parts to be painted, plated, hot stamped, adhesive bonded, labeled, or otherwise decorated.
<b>MACWAX</b>	  	A general purpose, wax-based release agent designed to be sprayed and/or buffed on to surfaces porous and nonporous surfaces. Can be used to release silicone, epoxy, polyurethane, and polyester.
<b>Challenge 95</b>	 	Primarily a release for flexible and rigid polyurethane elastomers and foams. Can also be used to aid in release from plaster, polyurethane and epoxy moulds.
<b>TR102 Paste Wax and RM Wax</b>	 	A carnauba based paste wax used as a release on hard surface moulds or for polyester and epoxy resins.
<b>Honey Wax</b>	 	A carnauba based paste wax used as a release on hard surface moulds or for polyester and epoxy resins.
<b>Pol-Ease 2300</b>		Silicone-based, aerosol spray release agent for use on non-porous or sealed models. Should only be used with polyurethane rubber.
<b>Pol-Ease 2500</b>		Aerosol spray release agent that can be washed off of models and castings. Preferred choice when castings need to be painted. Can be applied to models for use with liquid silicone rubbers, but is not recommended for use with liquid polyurethane rubber. Can be applied to cured polyurethane and silicone rubber molds, but may affect mold life of cured polyurethane rubber.
<b>Petroleum Jelly</b>	 	General purpose release/sealer for various applications.
<b>Pure Lube Mould Soap</b>	 	A pure liquid non-detergent soap separator. For use when casting plaster/gypsum into a plaster mould. Prevents plaster/gypsum products from adhering to most porous surfaces.
<b>PVA</b>	 	A special formulated release for the fiberglass industry. Best used in conjunction with a wax style release agent for an additional barrier.
<b>Concentrated Silicone Spray</b>		Contains a blend of silicone to provide lubrication, protection and less binding.
<b>Graphite Powder</b>		Used to dust into moulds before pouring low melt alloys.
<b>Poly-Purge</b>		An aerosol spray that extends the product life of polyurethanes.


**AEROSOL**

**BRUSHED**

**SPRAY GUN**

**WIPED/ BUFFED**