



BLUE SEALS

The BlueSeal is one design suited for future engine dynamic sealing.

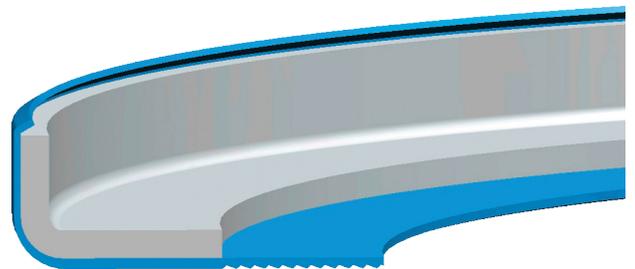
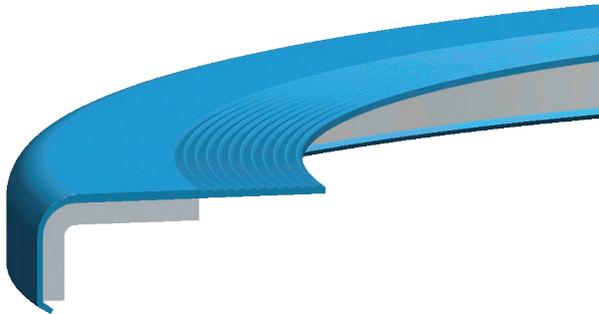
This patented **Simmerring® shaft seal technology** offers weight savings of 40 percent compared to a conventional seal, and it requires only half as much installation space.

A **specific design has been developed** to be mechanically resistant to high pressures, while the PTFE material of the seal lip stands up to aggressive substances.

VALUES FOR THE CUSTOMER

The BlueSeal technology has been developed specifically to achieve the following advantages:

- PTFE chemical inertia
- Low-friction POP® lip design
- Axial space reduction which allows for downsizing the engine or could also be used for additional functional space
- Weight reduction





FEATURES AND BENEFITS

Characteristic	Effect	Result for customer
PTFE as single material	<ul style="list-style-type: none"> • Use of all PTFE advantages 	<ul style="list-style-type: none"> • Full compatibility with oils and fuels • Fits with a global use in different regions of the world
Low friction (PTFE POP® lip design)	<ul style="list-style-type: none"> • Small dissipation loss • Temperature reduction in the contact area • Good performance in engine conditions 	<ul style="list-style-type: none"> • Mass production with PTFE POP lip • Higher efficiency • Reduction of shaft wear • Reduction of oil carbonization
Downsized design	<ul style="list-style-type: none"> • Minimum height required for a BlueSeal • –50% compared to traditional seals 	<ul style="list-style-type: none"> • More compact than solutions available on the market
Weight reduction	<ul style="list-style-type: none"> • Reduction down to –40% compared to traditional seals 	<ul style="list-style-type: none"> • Contribution to CO₂ emission reduction
Pumping effect	<ul style="list-style-type: none"> • Seal lubrication • Perfect sealing behavior 	<ul style="list-style-type: none"> • Increased sealing system durability
Specific design	<ul style="list-style-type: none"> • Higher resistance to pressure 	<ul style="list-style-type: none"> • Robust design for applications like injection pumps

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