Written by MT Staff
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A cost-effective alernative to equipment teardown

According to Chesterton, its patent-pending 33K split seal is not only quick to install and reliable, it has proven to outperform conventional lip seals. Its innovative split technology prevents penetration of external contaminants from entering the housing to provide excellent service in bearing and gearbox applications, among others.

The 33K is manufactured using Chesterton's unique machining process that eliminates the need for tooling costs associated with new sizes. The seal can be installed in either direction, thus allowing the end user to locate sealer rings away from a previously damaged shaft. Based on the product's unitized assembly, time required for installation can be reduced from hours to minutes.

Materials that outperform conventional oil lip seals

The 33K incorporates two different high-performance types of materials:

- The unitized housing is made from abrasion-resistant thermoset polyurethane that energizes and provides easy mounting to the equipment.
- The sealing interface is made from high-performance, filled PTFE material developed specifically for sealing applications.

Fast, easy and reliable

- Split design eliminates the need for and associated cost of equipment disassembly.

- No equipment modifications are necessary. All seals are made to order. **MT**

SPECIFICATIONS

Material (adapters/sealer rings)	Size Range mm (inch)	Temperature °C (°F)	Speed m/s (ft/min)	Pressure bar (psi)	Recommended use	Mating surface (Rockwell C)
AWC800 Adapters (EU)						
AWC100 (PTFE) Polyimide	25 to 610 (1 to 24)	85 (185)	12,7 (2,500)	0.07 (1)	Excellent dry Excellent low viscosity	≥45
AWC300 (PTFE) Moly and glass	25 to 610 (1 to 24)	85 (185)	12,7 (2,500)	0.07 (1)	Excellent high viscosity Good dry and good in water	≥55
AWC400 (PTFE) Carbon & graphite	25 to 610 (1 to 24)	85 (185)	12,7 (2,500)	0.07 (1)	Excellent in water Good dry and low viscosity	≥55
AWC860 Adapters (EU)						
AWC100 (PTFE) Polyimide	25 to 457 (1 to 18)	121 (250)	12,7 (2,500)	0.07 (1)	Excellent dry Excellent low viscosity	≥45
AWC300 (PTFE) Moly and glass	25 to 457 (1 to 18)	121 (250)	12,7 (2,500)	0.07 (1)	Excellent high viscosity Good dry and good in water	≥55
AWC400 (PTFE) Carbon & graphite	25 to 457 (1 to 18)	121 (250)	12,7 (2,500)	0.07 (1)	Excellent in water Good dry and low viscosity	≥55

Performance depends on concurrent conditions including shaft hardness, shaft surface roughness, material, lubrication, temperature, and pressure.

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