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EagleBurgmann is one of the internationally leading companies for industrial sealing technology. Our products are used everywhere where safety and reliability are important: in the oil and gas industry, refining technology, the petrochemical, chemical and pharmaceutical industries, food processing, power, water, mining, pulp & paper, aerospace and many other spheres. Every day, more than 6,000 employees contribute their ideas, solutions and commitment towards ensuring that customers all over the world can rely on our seals. Our modular TotalSealCare service underlines our strong customer orientation and offers tailor-made services for every application.

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BarrierPro

A barrier fluid series for dual mechanical seals



Introducing... BarrierPro

EagleBurgmann is now offering **BarrierPro**, a barrier fluid series that has been developed from the highest quality synthetic base stocks and fortified with additives to provide a non-reactive, oxidatively-stable fluid for seal service over a wide temperature range. **BarrierPro** has been specially formulated for maximum performance with all mechanical seals used in convection and forced flow systems.

What Makes EagleBurgmann's BarrierPro Better

Features

- Compatible with other synthetic barrier fluids
- Low temperature fluidity
- High temperature stability
- Efficiently transfers heat, keeps the seal faces cool
- Chemically inert
- Environmentally safe (BarrierPro 5)
- Readily biodegradable according to OECD 301B (BarrierPro 5)

Advantages

Very Clean

BarrierPro features a typical ISO 4406 cleanliness level of 15/13/10

Single Solution

BarrierPro lubricants are formulated to provide a non-reactive, oxidatively-stable fluid for seal service over a wide temperature range. It achieves this quality while also being NSF H1 registered, ISO 21469 certified, Kosher and Halal certified and CFIA accepted, which removes the need to change oils in a food grade environment.

Fluidity

BarrierPro lubricants have excellent low temperature fluidity and high temperature stability properties as well as the ability to efficiently transfer heat and cool the seal faces. An important benefit is the avoidance of carbon blistering, which makes **BarrierPro** the best choice for applications with frequent start-stop and transient operation with respect to pressure, speed or temperature.

Compatibility

BarrierPro is suitable with most commonly used seal materials, while being compatible with other synthetic barrier fluids, mineral oils, white oils, and diester fluids. It should not be mixed with glycol or silicone synthetics.

Synthetic

Unlike petroleum oils, which are complex mixtures of naturally occurring hydrocarbons, synthetic base fluids are man-made petrochemicals with performance-enhancing additives that have predictable and desirable properties. EagleBurgmann's **BarrierPro** contains no impurities that are known catalyst poisons.

	Product Name	5	17
Physical Properties	Viscosity		
	@40°C, cSt	5.1	16.9
	@100°C, cSt	1.7	3.9
	Pour Point, °F (°C)	-103 (-75)	-99 (-73)
	Flash Point, °F (°C)	305 (152)	425 (219)
	Specific Gravity	.798	.820
	Copper Strip Corrosion	1A	1A
	ASTM D1401	40/40/0 (10)	40/40/0 (10)
	NSF Registered	H1	H1
	ISO 21469	Yes	
	Kosher	Yes	Yes
	Halal	Yes	Yes
Canadian Food Inspection Agency (CFIA)	Yes	Yes	

Shelf Life: Product shelf life is 3 years from the date of manufacture, after which the product should be recertified prior to use.

Available Sizes:

- Gallon Case
- 5 Gallon Pail
- 55 Gallon Drum
- 330 Gallon Tote



BarrierPro 5 and BarrierPro 17 both have excellent thermal properties.

	BarrierPro 5		BarrierPro 17			
Thermal Conductivity	°C	°F	W/(m °C)	BTU/(hr ft °F)	W/(m °C)	BTU/(hr ft °F)
	-17.8	0	0.147	0.085	0.156	0.090
	10	50	0.143	0.083	0.152	0.088
	23.9	75	0.142	0.082	0.151	0.087
	37.8	100	0.142	0.082	0.149	0.086
	93.3	200	0.135	0.078	0.143	0.083
	148.9	300	0.130	0.075	0.138	0.080

	BarrierPro 5		BarrierPro 17			
Specific Heat	°C	°F	kJ/(kg °C)	BTU/(lbm °F)	kJ/(kg °C)	BTU/(lbm °F)
	-17.8	0	2.05	0.49	2.13	0.51
	10	50	2.18	0.52	2.22	0.53
	23.9	75	2.22	0.53	2.26	0.54
	37.8	100	2.26	0.54	2.30	0.55
	93.3	200	2.43	0.58	2.47	0.59
	148.9	300	2.64	0.63	2.64	0.63

The demands on the ideal barrier fluid are sophisticated and it is difficult to find a product that perfectly fits the application.

You can be confident you have the right product when using EagleBurgmann's BarrierPro on your seals.