

# Armorlene<sup>®</sup> PTFE

FLUID POWER SEALS

PRODUCT PROFILES





## MASTER MATERIALS INDEX

MATERIAL	FILLER	MATERIAL DESIGNATOR	COLOR	TEMPERATURE RANGE °C	TEMPERATURE RANGE °F
<b>ARMORLENE® HLX</b>	Special Bronze Compound	HLX	Gold	-73 to 288°C	-100 to 550°F
<b>ARMORLENE® HLA</b>	Special Mineral Compound	HLA	Gray	-73 to 260°C	-100 to 500°F
<b>ARMORLENE® 702</b>	Glass Molybdenum Disulfide	702	Gray	-73 to 260°C	-100 to 500°F
<b>ARMORLENE® HCF</b>	Carbon Fiber Filled	HCF	Gray/Black	-73 to 260°C	-100 to 500°F
<b>ARMORLENE® HCV</b>	High Carbon Fiber Filled	HCV	Gray/Black	-73 to 260°C	-100 to 500°F
<b>ARMORLENE® 700</b>	Unfilled	700	White	-184 to 204°C	-300 to 400°F
<b>ARMORLENE® 780</b>	Unfilled	780	Turquoise	-184 to 232°C	-300 to 450°F
<b>ARMORLENE® 706</b>	15% Glass	706	Off-White	-73 to 260°C	-100 to 500°F
<b>ARMORLENE® 701</b>	25% Glass	701	Off-White	-73 to 260°C	-100 to 500°F
<b>ARMORLENE® 711</b>	25% Carbon/Graphite	711	Black	-73 to 288°C	-100 to 550°F
<b>ARMORLENE® 734</b>	10% Carbon/Graphite	734	Black	-73 to 260°C	-100 to 500°F
<b>ARMORLENE® 716</b>	Graphite	716	Black	-73 to 260°C	-100 to 500°F
<b>ARMORLENE® 713</b>	60% Bronze Content	713	Bronze	-73 to 288°C	-100 to 550°F

## PRODUCT GROUP AND PROFILES

	PROFILE NAME	PROFILE RENDERING	OPERATING CONDITIONS	metric	inch
ROD SEALS	R16		Maximum Speed	Up to 15.0m/sec	Up to 50.0ft/sec
			Temperature Range *	-45 to 200°C	-49 to 392°F
			Maximum Dynamic Pressure**	600 bar	8700 psi
	RDA		Maximum Speed	Up to 15.0m/sec	Up to 50.0ft/sec
			Temperature Range *	-45 to 200°C	-49 to 392°F
			Maximum Dynamic Pressure**	600 bar	8700 psi
	RDS		Maximum Speed	Up to 15.0m/sec	Up to 50.0ft/sec
Temperature Range *			-45 to 200°C	-49 to 392°F	
Maximum Dynamic Pressure**			350 bar	5000 psi	
RCG		Maximum Speed	Up to 15.0m/sec	Up to 50ft/sec	
		Temperature Range *	-45 to 200°C	-49 to 392°F	
		Maximum Dynamic Pressure**	200 bar	2900 psi	
SRS		Maximum Speed	Up to 4.0m/sec	Up to 12.0ft/sec	
		Temperature Range *	-45 to 200°C	-49 to 392°F	
		Maximum Dynamic Pressure**	400 bar	5800 psi	
SRB		Maximum Speed	Up to 4.0m/sec	Up to 12.0ft/sec	
		Temperature Range *	-45 to 200°C	-49 to 392°F	
		Maximum Dynamic Pressure**	600 bar	8700 psi	

	PROFILE NAME	PROFILE RENDERING	OPERATING CONDITIONS	metric	inch
SWIVEL SEALS	SSP		Maximum Speed	Up to 2.0m/sec	Up to 6.5ft/sec
			Temperature Range *	-45°C to 200°C	-49°F to 392°F
Maximum Dynamic Pressure**			300 bar	4350 psi	
SSR		Maximum Speed	Up to 2.0m/sec	Up to 6.5ft/sec	
		Temperature Range *	-45 to 200°C	-49 to 392°F	
		Maximum Dynamic Pressure**	300 bar	4350 psi	






\*Dependent upon energizer used (NBR, FKM, etc.). \*\*For pressures above the maximum pressure listed contact Hallite Engineering.

## PRODUCT GROUP AND PROFILES

PISTON SEALS	PROFILE NAME	PROFILE RENDERING	OPERATING CONDITIONS	metric	inch
	CT		Maximum Speed	Up to 1.5m/sec	Up to 5.0ft/sec
			Temperature Range *	-45 to 200°C	-49 to 392°F
			Maximum Dynamic Pressure**	600 bar	8700 psi
	P54		Maximum Speed	Up to 15.0m/sec	Up to 50.0ft/sec
			Temperature Range *	-45 to 200°C	-49 to 392°F
			Maximum Dynamic Pressure**	600 bar	8700 psi
	P16		Maximum Speed	Up to 15.0m/sec	Up to 50.0ft/sec
			Temperature Range *	-45 to 200°C	-49 to 392°F
			Maximum Dynamic Pressure**	600 bar	8700 psi
	GPS		Maximum Speed	Up to 2.0m/sec	Up to 6.5ft/sec
Temperature Range *			-45 to 200°C	-49 to 392°F	
Maximum Dynamic Pressure**			500 bar	7200 psi	
GP2		Maximum Speed	Up to 3.0m/sec	Up to 10.0ft/sec	
		Temperature Range *	-45 to 200°C	-49 to 392°F	
		Maximum Dynamic Pressure**	600 bar	8700 psi	
PFR		Maximum Speed	Up to 4.0m/sec	Up to 13.0ft/sec	
		Temperature Range *	-45 to 200°C	-49 to 392°F	
		Maximum Dynamic Pressure**	350 bar	5000 psi	
PDS		Maximum Speed	Up to 15.0m/sec	Up to 50.0ft/sec	
		Temperature Range *	-45 to 200°C	-49 to 392°F	
		Maximum Dynamic Pressure**	350 bar	5000 psi	
PCG		Maximum Speed	Up to 15.0m/sec	Up to 50.0ft/sec	
		Temperature Range *	-45 to 200°C	-49 to 392°F	
		Maximum Dynamic Pressure**	200 bar	2900 psi	
PCA		Maximum Speed	Up to 4.0m/sec	Up to 13.0ft/sec	
		Temperature Range *	-45 to 200°C	-49 to 392°F	
		Maximum Dynamic Pressure**	350 bar	5000 psi	

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## PRODUCT GROUP AND PROFILES

	PROFILE NAME	PROFILE RENDERING	OPERATING CONDITIONS		
				metric	inch
WIPER	E2W		<b>Maximum Speed</b>	Up to 15.0m/sec	Up to 50.0ft/sec
			<b>Temperature Range *</b>	-45 to 200°C	-49 to 392°F
	E5W		<b>Maximum Speed</b>	Up to 15.0m/sec	Up to 50.0ft/sec
			<b>Temperature Range *</b>	-45 to 200°C	-49 to 392°F
	ELA		<b>Maximum Speed</b>	Up to 4.0m/sec	Up to 13.0ft/sec
			<b>Temperature Range *</b>	-45 to 200°C	-49 to 392°F
	EXF		<b>Maximum Speed</b>	Up to 15.0m/sec	Up to 50.0ft/sec
			<b>Temperature Range *</b>	-45 to 200°C	-49 to 392°F
	EXG		<b>Maximum Speed</b>	Up to 5.0m/sec	Up to 16.4ft/sec
			<b>Temperature Range *</b>	-45 to 200°C	-49 to 392°F

## OPTISEAL® SYSTEM

### Custom Spring-Energized Seals for the Most Demanding Applications

- **Pressure rated from vacuum to 413MPa**
- **Temperature capable of -184 °C to 288 °C**
- **Fugitive emissions requirements**
- **Maximum sealability in static and dynamic applications**



\*Dependent upon energizer used (NBR, FKM, etc.). \*\*For pressures above the maximum pressure listed contact Hallite Engineering.

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At Hallite, we want to help you forget about your seals. It's not that we don't understand the critical role they play in the performance and productivity of your equipment — quite the contrary. After all, as a leading manufacturer of high performance hydraulic sealing solutions, we've been developing and delivering high-quality seals for a wide variety of markets for over a century.

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