



Busch Lubricants



Description

Busch lubricants are especially formulated for the unique requirements of vacuum service which include lubrication of moving parts and transfer of heat from the pump.

Changing lubricants at the recommended intervals is one of the most important and easiest ways to achieve the best performance and longest life from your vacuum pump.

Vacuum Pump Lubricant Selection Chart

Busch lubricants have been carefully formulated to meet the operating characteristics of each pump model. The use of other oils, greases or filters can result in poor pump performance and premature wear.

Oil Type	Description (more detailed on last page)	Comments			
			General Purpose	High Temperature	Chemical Resistant
R-530	Standard hydrocarbon, detergent free, SAE 30 wt., ISO 100	Oil used for most applications	●		
R-540	Standard mineral oil, detergent free, SAE 40 wt., ISO 150	Oil used for most once-through applications	●		
R 560	Polyolester based, SAE 30 wt., ISO 100	AC pumps with mechanical seals		●	
R-570	Synthetic polyalphaolefin oil, SAE 30 wt., ISO 100	Stable at high temperature >100°C		●	●
R-580	Synthetic polyalphaolefin oil, SAE 15 wt., ISO 68	Stable at high temperature >100°C Standard for R50021		●	●
R-590	Semi-synthetic hydrocracked, dewaxed, paraffinic oil, SAE 30 wt., ISO 100	High temperature >100°C, chemical resistant		●	●
R-605	Synthetic food grade oil, SAE 30 wt., ISO 100	Complies with USDA-H1 applications, incidental contact with edible products			
R-610	Synthetic high vacuum oil SAE 30 wt., ISO 100	100 micron or deeper vacuum			
R-620	Fomblin® fluid SAE 30 wt., ISO 100	For oxygen service		●	●

Gear Oil					
R 130	Synthetic hydrocarbons and additives, SAE 90 wt., ISO 220				

Bearing Grease					
G 120	All purpose non-melt hydrocarbon	High temperature		●	●
G 130	High purity hydrocarbon	High temperature		●	
G 140	Lithium based	High temperature			
G 620	Perfluorinated polyether	For oxygen service			●

Flushing Oil					
R-568	Synthetic flushing fluid, SAE 20 wt., ISO 68	For dissolving varnish and residues			



- Normal use
- Optional, consult factory for application

Properties					Products							
Oxidation Resistant	Water Vapor Resistant	High Vacuum	Food Grade	Oxygen Service	R5 Series Pumps	Huckepack	Mink	Merlin	MM Mink	COBRA AC	COBRA N Series	Pandas
					● Except 021	○ Mark 4 only				● Except mech. seals	●	●
						● Mark 1 & 4				○	○	○
●					○ Except 021					●		
●	●				○ Except 021	○	○		○	○	○	○
●	●				○ 021 only	○						
●	●				○ Except 021	○	○		○	○	○	○
			●		○ Except 021	○	○		○	○	○	○
		●			○ Except 021	○						
●		●		●	○ Except 021		○		○	○	○	○

							●	●	●			
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Lubricant Descriptions



G-120

All purpose non-melt bearing grease specially formulated with extreme pressure and anti-wear additives and special rust and corrosion inhibitors which provide greater protection for equipment. Exceptionally resistant to acids, water, salts, spray, weather, dirt, steam, and oxidation and has excellent adhesive and cohesive properties.

G-130

High temperature, high purity bearing grease. Operates in wide temperature ranges, has low dynamic viscosity, and has a special synthetic base oil/thickener.

G-140

High temperature, lithium based naphthenic bearing grease

G-620

Chemically inert lubricating perfluorinated polyether bearing grease is required when handling reactive or oxidizing substances. Compatible with all types of material and their properties remain unaltered over wide temperature ranges.

R-130

High performance, fully synthetic gear oil formulated for a wide range of difficult medium to heavy duty applications, particularly at extreme temperatures and where minimum deposits are required. It is for all types of enclosed gears and is suitable for heavy duty ball and roller bearings.

R-530

Highly refined hydrocarbon oil with a high viscosity index that gives excellent lubricating performance where rust, oxidation, and/or high bearing and gear loading are not problems. They have excellent water separation and oxidation resistance, SAE 30 wt., ISO 100.

R-540

Highly refined hydrocarbon oil with a high viscosity index that gives excellent lubricating performance where rust, oxidation, and/or high bearing and gear loading are not problems. They have excellent water separation and oxidation resistance, SAE 40 wt., ISO 150.



Busch - all over the world in industry

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R-560

Polyolester (POE) long life synthetic gear oil. Ideal for applications where oil is exposed to elevated temperatures for extended periods of time. It is biodegradable, offers excellent corrosion protection, and does not leave varnish or sludge when oxidation occurs.

R-568

Specially formulated synthetic flushing fluid capable of dissolving varnish and solubilizing sludge from lubricating systems. Contains oxidation and rust inhibitors. A high flash point and non-toxic nature ensures safety in its applications. SAE 20 wt.

R-570

Polyalphaolefin (PAO) synthetic hydrocarbon oil, provides improved lubrication at high and low temperatures, compatibility with hydrocarbon oils and reduced volatility. It is a long life lubricant formulated with rust and oxidation inhibitors. SAE 30 wt., ISO 100.

R-580

Polyalphaolefin (PAO) synthetic hydrocarbon oil, provides improved lubrication at high and low temperatures, compatibility with hydrocarbon oils and reduced volatility. It is a long life lubricant formulated with rust and oxidation inhibitors. SAE 15 wt., ISO 68.

R-590

Hydrocracked, dewaxed, paraffinic oils specifically designed for long life under severe conditions. Characteristics include: very low vapor pressure, exceptional stability – oxidative, thermal, and viscosity – low evaporation loss, chemical resistant, rust and corrosion inhibited, and resistance to carbon buildup. SAE 30 wt., ISO 100.

R-605

Synthetic food grade oil. Custom blended polyalphaolefin (PAO) synthetic hydrocarbon fluid for improved lubrication at high and low temperatures, reduced volatility, and compatibility with mineral oils and equipment designed for use with mineral oils. SAE 30 wt., ISO 100.

R-610

Synthetic oil for standard and high vacuum applications that pump air, inert gases, noble gases, ammonia, weak-aggressive solvent fumes, hydrogen, silane, and up to 21% oxygen.

R-620

Fomblin® perfluorinated polyether fluids composed of fluorine, carbon, and oxygen only. They exhibit excellent heat stability and chemical inertness. Other properties include: non-toxic behavior, non-flammable, non-reactive, and good wear properties at low and high temperatures.