



Vacuum Pump Lubricants

ERRECOM **Vacuum Pump Lubricants** are developed on a high viscosity index lubricant formulated from selected paraffinic base oils. These oils are designed with additives that achieve better lubricity, chemical and thermal stability as well as excellent anti-wear protection of the AC/R system components.

Vacuum Pump Lubricants are new conception lubricants: thanks to their chemical-physical characteristics, they have been developed for modern hydraulic systems also operating in severe operating conditions.

The pursued aims in the development of new ERRECOM lubricants are:

- 1) Excellent lubricity;
- 2) High viscosity index;
- 3) Low pour point: this feature allows you to expand the temperature range of the product usage and ensures easy starting of the hydraulic systems in cold condition;
- 4) High anti-wear properties to increase the efficiency and the life of the pumps and of all the system moving "organs";
- 5) High Compatibility with the materials of all kind of systems, both new and old ones (with a constant attention to their evolution over the time);
- 6) High thermal stability which allows the usage also in closed systems operating at high temperatures and high pressures without causing the formation of deposits and sludge;
- 7) High oxidative stability that allows extensions of the charge while operating. This avoids the possibility of early viscousing processes of the product;
- 8) High hydrolytic stability capable of saving the working oil from decomposition processes even when in presence of small percentages of water;
- 9) Good demulsibility: this property promotes rapid separation of oil from water which has possibly entered the system. Demulsibility can further inhibit the oxidation process;
- 10) Higher filterability in comparison with the previous generation lubricants, even in presence of water: this prevents the clogging of filters and extends the normal filters replacement intervals;
- 11) Anti-corrosion and anti-rust power to effectively protect all the metal components of the hydraulic system;
- 12) Anti-foam properties to avoid the presence of foam and air. These are factors that can reduce the system efficiency because of the coefficient of cubic compressibility which is different from the one of the oil.

ERRECOM lubricants cover a vast field of applications, with no risk of sagging and/or decompositions: the classification is by kind of pumps (vane, gear, pistons, etc.), type of metals used in the system, as well as exercise severity (high temperatures, pressures, etc.).

Vacuum Pump Lubricants have been specifically designed and manufactured for the usage in hydraulic systems whose proper operation requires a lubricant with high viscosity index, high mechanical strength, low pour point, outstanding anti-wear properties and chemical stability at high temperatures.

The product is presented in the various ISO gradations. The choice of the correct viscosity is performed according to the pump manufacturers recommendations and depending on the ambient temperature.

Method and reference unit	ISO 32	ISO 46	ISO 68
ISO VG	32	46	68
Kinematic viscosity @ 40°C (cSt)	32,2	46,4	67,9
Kinematic viscosity @ 100°C (cSt)	5,5	7,2	8,8
Kinematic index	105	103	102
Freezing point (°C)	-31	-26	-25
Flash point (°C)	210	215	220
Density @ 15°C (g/cm³)	0,870	0,872	0,877

It is suggested a dosage as close as possible to the quantity needed. For the biggest formats, it is recommended to quickly close the container and keep it in a cool and dry place in order to avoid the formation of moisture. Keep the product between -40°C and + 60°C. Do not expose to sunlight.

