INDUSTRIAL
HERCULES SYNPAO

DESCRIPTION

HERCULES SYNPAO series consists of superior quality poly-α-olefin (PAO)-basestock formulated with zinc-free, antiwear additives and highly refined base oils for high-pressure air compressors. The use of PAO offers to the lubricant exceptional flow characteristics, easy flow until -42°C and optimum performance in high operation temperatures.

APPLICATIONS

The series is recommended for use in compressors where long, efficient and effective compressor performance is vital. They are recommended for wet and dry rotary screw & vane air compressors operating at high temperatures and pressures (>100°C & >15 bar).

CHARACTERISTICS-BENEFITS

CHARACTERISTICS	BENEFITS
Outstanding oxidation resistance; excellent anti-wear properties.	Compressors are kept exceptionally clean, minimization of deposits build up on the pressure space and on the valves; compressor efficiency is improved.
High viscosity index and low tendency volatility.	Low oil consumption for better air quality, reduced possibility of fires and explosion, longer machine life.
Good anti- foam properties; rapid de-aeration and water separation.	Reduced rust, wear, extended oil service life.
Compatible with mineral air compressors oils.	There is no danger in case of mixing different lubricants.
Compatible with most seal materials, excl. buna S, butyl, EPDM, EPR, natural rubber (PAO).	Wide range of applications; reduction of leaks.

PHYSICAL-CHEMICAL CHARACTERISTICS

HERCULES SYNPAO	METHOD	ISO 46	ISO 68
Density at 15°C, g/cm^3	ASTM D1298	0,8380	0,8400
Viscosity, Kinematic (cSt) 40^{0}C	ASTM D445	46	68
Viscosity, Kinematic (cSt) 100^{0}C	ASTM D445	8,03	10,1
Viscosity index	ASTM D2270	132	136
Flash point, COC, °C	ASTM D92	230	250
Carbon residue Ramsbottom (%)	ASTM D525	0,26	0,27
Water separability	ASTM D1401	10	10
Pour point, °C	ASTM D97	-42	-42
FZG (A/8.3/90)	DIN 513252	>12	>12
Copper corrosion	ASTM D130	1a	1a

The abovementioned characteristics represent mean values.

SPECIFICATIONS

DIN 51506 VDL; ISO 6743-3 (ISO-L-DAG, ISO-L-DAH, ISO-L-DAJ)