INDUSTRIAL
HERCULES

DESCRIPTION

HERCULES series consists of superior quality lubricants formulated with zinc-free, antiwear additives and highly refined base oils for high-pressure air compressors. They fully meet the strictest requirements of DIN 51506 Category VD-L, covering the operation at compression temperatures up to 220°C. They keep pipes, vanes and heat exchangers clean from hazardous carbon deposits, thus reducing maintenance cost.

APPLICATIONS

Grades 32 & 68 can be used for rotary, oil-flooded screw air compressors and centrifugal air compressors requiring oils with oxidation stability and antirust ability. Grade 100 is suitable for the lubrication of all reciprocating compressors (>140°C). The series can be used in circulation systems with plain and rolling bearings operating at high temperatures.

Not suitable for refrigeration compressors

CHARACTERISTICS-BENEFITS

CHARACTERISTICS	BENEFITS
Exceptional protection against rust and corrosion.	Enables long service life; Reduced maintenance cost.
Outstanding high temperature stability.	Low deposit-forming tendency in valves and air discharge system; safety during operation.
Fortified with foam inhibitors; rapid de-aeration.	Smooth and economical operation.
Superior demulsibility.	Prevents accumulation of sludge in crankcases and discharge lines.
Compatible with seal materials.	Wide range of application.

PHYSICAL-CHEMICAL CHARACTERISTICS

HERCULES	METHOD	ISO 32	ISO 46	ISO 68	ISO 100
Density at 15°C, g/cm^3	ASTM D1298	0,8650	0,8690	0,8820	0,8860
Viscosity, Kinematic (cSt) 40^{0}C	ASTM D445	32	46	68	100
Viscosity, Kinematic (cSt) 100^{0}C	ASTM D445	5,38	6,82	8,75	11,1
Viscosity index	ASTM D2270	103	103	99	95
Flash point, COC, °C	ASTM D92	210	228	240	256
Pour point, °C	ASTM D97	-33	-27	-24	-21
Emulsion test, min	ASTM D1401	10	20	20	20
Copper corrosion	ASTM D130	1a	1a	1a	1a

The above mentioned characteristics represent mean values.

SPECIFICATIONS

DIN 51506 VDL (air exhaust 220°C); ISO 6743-3 (ISO-L-DAA, ISO-L-DAB, ISO-L-DAG, ISO-L-DAH)