



# 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 anti-rust 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 <sup>3</sup>	ASTM D1298	0,865	0,874	0,882	0,888
Viscosity, Kinematic (cSt) 40 <sup>0</sup> C	ASTM D445	32	46	68	100
Viscosity, Kinematic (cSt) 100 <sup>0</sup> 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	-32	-28	-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 L-DAA/-DAB/-DAG/-DAH