

TECHNICAL PRODUCT SHEET

# HERCULES

ISO 32, 46, 68, 100



## DESCRIPTION

HERCULES series consists of superior quality lubricants formulated with zinc-free, anti-wear 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

HERCULES series is designed for a wide range of compressor and high-temperature bearing applications. Grades ISO 32 and ISO 68 are recommended for rotary, oil-flooded screw air compressors and centrifugal air compressors that require oils with excellent oxidation stability and rust protection. Grade ISO 100 is specifically formulated for the lubrication of all reciprocating compressors operating at discharge temperatures above 140 °C. Additionally, the series is suitable for use in circulation systems equipped with plain and rolling bearings functioning under high-temperature conditions, ensuring reliable performance and extended equipment life. Not suitable for refrigeration compressors

## SPECIFICATIONS

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

## PROPERTIES

HERCULES series provides exceptional protection against rust and corrosion while delivering outstanding high-temperature stability. Formulated with foam inhibitors for rapid air release and superior demulsibility to ensure efficient water separation. Compatible with common seal materials, offering reliable performance in demanding operating conditions.

## BENEFITS

HERCULES series enables long service life and helps reduce maintenance costs through its low deposit-forming tendency in valves and air discharge systems, ensuring safe and efficient operation. Prevents sludge accumulation in crankcases and discharge lines for smooth, economical performance. Its versatility supports a wide range of applications, delivering reliability across demanding conditions.



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### PHYSICAL-CHEMICAL CHARACTERISTICS

HERCULES	METHOD	ISO 32	ISO 46	ISO 68	ISO 100
Density at 15°C, g/cm <sup>3</sup>	ASTM D4052	0.875	0.868	0.878	0.886
Viscosity, Kinematic (cSt) 40°C	ASTM D445	32	46	68	100
Viscosity, Kinematic (cSt) 100°C	ASTM D445	5.5	6.9	8.9	11.5
Viscosity index	ASTM D2270	105	105	103	102
Flash point, COC, °C	ASTM D92	210	230	240	256
Pour point, °C	ASTM D97	-30	-30	-24	-21
Copper corrosion	ASTM D 130	1a	1a	1a	1a
Demulsibility, min.	ASTM D1401	10	10	20	20
Air release, min	ASTM D3427	3.5	3.8	4.0	6.5

The above mentioned characteristics represent mean values.

### STORAGE

All packages must be stored in covered, well-ventilated areas. If outdoor storage cannot be avoided, barrels must be placed horizontally to prevent water ingress and to protect labels and markings from damage. Products must not be stored at temperatures above 60 °C and must not be exposed to direct sunlight, freezing conditions, or extreme temperature fluctuations.



### HEALTH & SAFETY

This product is not considered to pose significant risks to health or safety when used as intended and in accordance with recommended personal hygiene practices. It must not be applied for purposes other than those for which it has been formulated. For detailed guidance on safe handling and use, refer to the Safety Data Sheet (SDS).



### USED OILS

Used lubricants must be collected at designated collection points to prevent environmental contamination. They must not be mixed with solvents, brake fluids, or antifreeze.

