

TECHNICAL PRODUCT SHEET

# COMET

## ISO 46, 68



### DESCRIPTION

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COMET series consists of two grades of quality lubricants manufactured from naphthenic-based oils with excellent low temperature properties for the lubrication of refrigeration systems. They are suitable for use with the refrigerants CFC's and HCFC's (R-12, R-21, R-22) and ammonia. They have very good thermal and chemical stability with very low flock points.

### APPLICATIONS

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They are intended for reciprocating and rotary refrigeration compressors where abnormally low ambient temperatures require the use of oils with exceptionally low pour points. They are compatible with refrigerant gases such as halogenated hydrocarbons, Freon-12, Freon-21, Freon-22. They are suitable for use in air conditioning systems, room air conditioning units, and cargo refrigeration systems (on-/off-shore applications).

### SPECIFICATIONS

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DIN	515503 KAA, KA, KC	B.S.	2626/75
ISO	6743-3 (ISO-L-DRA)		
Meets	Bock, Howden, York, Grasson, Carrier, Sabroe		

### PROPERTIES

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COMET series features a low pour point and excellent floc point performance, ensuring reliable operation in low-temperature conditions. It provides a high-strength lubricating film for superior wear protection and demonstrates very good miscibility with fluorinated hydrocarbon refrigerant gases. Its advanced formulation also offers excellent thermal stability, supporting long-term efficiency and durability in demanding applications.

### BENEFITS

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COMET series prevents the formation of waxy deposits in low-temperature zones and ensures effective compressor lubrication under all operating conditions. Its formulation allows the oil to be carried with the refrigerant on the low-temperature side of the system, securing proper lubrication throughout the circuit. It also offers strong resistance to refrigerant decomposition, helping prevent sludge formation and deposit build-up for cleaner, more reliable system performance.



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### PHYSICAL-CHEMICAL CHARACTERISTICS

COMET	METHOD	ISO 46	ISO 68
Density at 15°C, g/cm <sup>3</sup>	ASTM D4052	0.905	0.910
Viscosity, Kinematic (cSt) 40°C	ASTM D445	46	65
Viscosity, Kinematic (cSt) 100°C	ASTM D445	5.4	6.8
TAN, mgKOH/g	ASTM D974	0.04	0.04
Flash point, COC, °C	ASTM D92	180	185
Pour point, °C	ASTM D97	-39	-30
Freon-12 flock point, °C	FTM 1303	-51	-47
Color	ASRM D1500	1.5	2.0

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.

