Klea® 32
Technical Data Sheet

Applications

Some of its most common applications are:

New air conditioning equipment for residential and commercial use.

Blending component for alternatives such as Klea®407C and Klea® 410A.

Advantage

Product Information: Klea® 32

Low GWP.

Increased performance in air conditioning systems.

Does not deplete the ozone layer.

It is a pure product.

Product Information

Klea® 32 is a non-toxic refrigerant with excellent performance. It is a global trend.

As a pure product, it can be charged in liquid or gas phase without altering its composition, facilitating recharging in the event of a leak.

It can be used as a component in blends with HFOs such as 454B.

Property	S.I. Units	Value	British Units	Value
Molecular Weight	kg/kmol	52.02	lbm/lbmol	52.02
Critical Temperature	°C	78.11	°F	172.59
Critical Pressure	bara	57.82	psia	838.61
Critical Density	kg/m^3	424.00	lb/ft^3	26.47
Normal Boiling Point	°C	-51.651	°F	-60.972
Latent Heat of Vapourisation at Atmospheric Pressure	kJ/kg	381.86	BTU_{IT}/lb	164.17
Saturated Vapour Density at Atmospheric Pressure	kg/m^3	2.9879	lb/ft^3	0.19
Liquid Vapour Pressure at 25°C	bara	16.896	psia	245.06
Coefficient of Volumetric Thermal Expansion for Saturated Liquid at 25°C	$°C^1$	0.00465	$°F^{-1}$	0.00258
Speed of Sound* for Saturated Vapour at 25°C	m/s	203.72	ft/s	668.37
Adiabatic Exponent* for Saturated Vapour at 25°C		1.68		1.68
Latent Heat of Vapourisation at 25°C	kJ/kg	270.910	BTU_{IT}/lb	116.47
Saturated Vapour Density at 25°C	kg/m^3	47.339	lb/ft^3	2.955
Saturated Vapour Density at 0°C	kg/m^3	22.091	lb/ft^3	1.379

Recommended Lubricants

- POE oil is recommended for compressor lubrication.
- It should not be mixed with mineral-type oils.

The Safety Classification

- A2L, low toxicity and low flammability.

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Fluor & Energy Materials

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More about Orbia Fluor & Energy Materials

Orbia's Fluor & Energy Materials (F&EM) business is the world's largest integrated manufacturer and supplier of refrigerants for the refrigeration and air conditioning industry.

From raw material extraction to our manufacturing centers in Mexico, the United Kingdom, the United States, and Japan, with in-depth expertise in technical support and product development, our "mine-to-market" philosophy guarantees high reliability and security in supply and service to our customers.