



R-417 A

(ISCEON MO59)

GUARANTEED COMMERCIAL SPECIFICATIONS

STANDARD SPECIFICATIONS	LIMIT VALUE
Composition:	
R-125	46.6 % (± 1.0)
R-134a	50 % (± 1.0)
R-600	3.4 % (-0.4/+ 0.1)
Guaranteed purity	≥ 99 % weight
Water content	≤ 10 ppm weight
Chlorine ion test (silver nitrate test)	none
Acidity	≤ 1 ppm weight
Non-condensable content (gas phase)	≤ 1.5 % volume

MAIN APPLICATIONS

Isceon® MO59 is a HFC type zeotropic replacing mixture designed for R-22 (HCFC) "drop-in" replacement in air-conditioning direct expansion setups.

Note: for water coolers, ISCEON® MO29 is recommended.

OILS

Use a mineral (MN), alkylbenzene (AB), or polyol ester (POE) oil.

Check with **Climalife** regarding the viscosity of the oil selected for your application, and the miscibility with the fluid under consideration.

PRECAUTIONS OF USE

Refer to the Safety Data Sheet*.

REGULATION

In Europe, ISCEON® MO59 recovery is mandatory as per regulation n° 842/2006.
(Refer to regulations enforced in each country)

* Find the Safety Data Sheet (SDS) directly on our website www.climalife.dehon.com

**R-417 A****R-417 A (ISCEON MO59) PHYSICO-CHEMICAL PROPERTIES**

Molar mass	g/mol	109
Melting point	°C	N/A
Boiling point (under 1.013 bar)	°C	-41.8
Dew point (under 1.013 bar)	°C	-36.7
Temperature drift under 1.013 bar	K	5.1
Saturated fluid density at 25°C	kg/m ³	1149
Saturated vapour density at 25 °C	kg/m ³	47.7
Vapour pressure at: 25°C 50°C	bar	9.85 18.1
Critical temperature	°C	87.1
Critical pressure	bar	40.39
Critical density	kg/m ³	520
Latent heat of vaporisation at boiling point	kJ/kg	197.9
Thermal conductivity at 25°C Liquid Vapour under 1.013 bar	W/m.K	0.0714 0.0143
Viscosity at 25°C Liquid Vapour under 1.013 bar	10 ⁻³ Pa-s	0.163 0.0122
Specific heat at 25°C Liquid Vapour under 1.013 bar	kJ/kg.K kJ/kg.K	1.446 0.856
Cp/Cv ratio at 25°C under 1.013 bar		1.111
Flammability in air		non-flammable
Flashing point		None
NF-EN 378 Standard		L1
Potential effect on ozone	R-11 = 1	0
GWP	CO2 =1	1950

Please contact your distributor or **Climalife** sales department for more information. Also, if the refrigerated system you want to install does not appear to you as a typical case, we are at your service to provide opinions and advices.

The information contained in this product sheet is the result of our studies and experience. It is provided in good faith, but should not, under any circumstance, be taken to constitute a guarantee on our part or an assumption of our responsibility. This is particularly the case when third party rights are at stake or in situations where a user of one of our products fails to observe applicable regulations.

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