



R-402 B

(ZEOTROPIC MIXTURE)

GUARANTEED COMMERCIAL SPECIFICATIONS

STANDARD SPECIFICATIONS	LIMIT VALUE
Composition	
R-125	38 % (± 2 %)
R-290	2 % (± 1 %)
R-22	60 % (± 2%)
Water content	≤ 10 ppm weight
Acidity (HCl)	≤ 0.1 ppm weight
Non-condensable content (gas phase)	≤ 1.5 % volume
High-boiling residues	≤ 0.01 % volume

MAIN APPLICATIONS

R-402B is a HCFC type "zeotropic" transition mixture of usage regulated over time, designed for current R-502 (CFC) uses in commercial and industrial cooling domains.

It is preferably used for conversions in ice making plants, central refrigerating plants for superstores, refrigerated warehouses, food deep-freezing facilities, and equipment for frozen food conservation.

OILS

Use an alkylbenzene (AB) or even polyol ester (POE) oil in agreement with the compressor manufacturer.

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

Using **R-402B** is governed by European regulation n° 2037/2000 of June 29, 2000:

- using **R-402B** is completely prohibited in new setup as of 12.31.2003
- using virgin **R-402B** is prohibited for maintenance and service as of 01.01.2010
- using **R-402B**, even recycled, is completely prohibited as of 01.01.2015.

In Europe, **R-402B** 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



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R-402B PHYSICOCHEMICAL PROPERTIES

Molar mass	g/mol	94.71
Melting point	°C	N/A
Boiling point (under 1.013 bar)	°C	- 47.18
Temperature drift under 1.013 bar	K	2.32
Saturated fluid density at 25°C	kg/m ³	1149
Saturated vapour density at boiling point	kg/m ³	5.254
Vapour pressure at: 25°C 50°C	bar	12.6 22.97
Critical temperature	°C	83.03
Critical pressure	absolute bar	45.25
Critical density	kg/m ³	536.3
Latent heat of vaporisation at boiling point	kJ/kg	210.1
Thermal conductivity at 25°C Liquid Vapour under 1.013 bar	W/(m.K)	0.07279 0.01158
Surface tension at 25°C	10 ⁻³ N/m	6.16
Viscosity at 25°C Liquid Vapour under 1.013 bar	10 ⁻³ Pa-s	0.147 0.0128
Specific heat capacity at 25°C Liquid Vapour under 1,013 bar	kJ/(kg.K) kJ/(kg.K)	1.349 0.7334
Cp/Cv ratio at 25°C under 1.013 bar		1.147
Flammability in air		non-flammable
NF-EN 378 classification		L1
Potential effect on ozone (ODP)	(R-11 = 1)	0.024

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.

For more information, please visit our website:

http://www.climalife.dehon.com/contact_us

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