ISCEON® REFRIGERANTS

ISCEON® 79

*(R-422A)

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*R-422A

248FP IPDS14 Version 4.0 Jan. 2005

*Pending ASHRAE public review

IDENTIFICATION

C.A.S. N°: Not Applicable SYNONYM(S): R-125/134a/600a

CHEMICAL NAME Blend of

> 1,1,1,2,2-pentafluoroethane 1,1,1,2-tetrafluoroethane and

2-methylpropane

CHEMICAL FORMULA Blend of

> CHF₂.CF₃ [354-33-6] CH₂F.CF₃ and [811-97-2] CH₃(CH₃)CHCH₃ [75-28-5]

MOLECULAR WEIGHT $M_r = 113.6$

GENERAL CHARACTERISTICS

Liquefied gas, under pressure

R-125 R-134a R-600a

99.8% minimum Purity of total blend components.....

Composition as defined by: ASHRAE Standard 34

SPECIFICATIONS

Ref: Rhodia UK Ltd Avonmouth Specification QCS 261

VAPOUR PHASE CONTAMINANTS

Air and other non-condensables (% by vol). 1.5 maximum

ARI 700-95 App C Method

LIQUID PHASE CONTAMINANTS

Water Content (ppm by weight)..... 10 maximum

ARI 700-95 App C Method

High Boiling Residue (% by volume).....

0.01 maximum ARI 700-95 App C Method

Acidity (ppm by weight)..... Chlorides (no visible turbidity).....

1 maximum ARI 700-95 App C Method

pass

As defined by: Air-conditioning & Refrigeration Institute (ARI) Standard 700-99

The Production and Commercial activities of Rhodia UK Limited are ISO 9002 certified

PHYSICAL and PHYSICOCHEMICAL PROPERTIES

These properties may vary with batch or method used. They are only given for guidance and DO NOT form part of any formal specification or agreement between Rhodia UK Limited and any third party.

•	Bubble Point at 1 Atm	-48.63 °C
٠	Dew Point at 1 Atm	-46.14 °C
٠	Vapour Pressure at 25°C:	12.83 BarA
٠	Liquid Density at 25°C:	1134 kg.m ⁻³
•	Critical Temperature:	71.7 °C
•	Critical Pressure:	37.48 BarA
•	Ratio of Specific Heats at 1 Atms at 25°C (C _p /C _V):	1.105
•	Thermal Conductivity (liquid) at 25°C	0.062 W/m°C
•	Flammability	Non Flammable
•	Ozone Depletion:	Zero
٠	GWP _(100yr) (IPCC1995)	2530
•	Solubility:	
	Water	Slightly soluble (about.0.12g/100 g)
	Organic solvents	Soluble

Full Thermodynamics Data are available on request.

APPLICATIONS

Direct replacement for low temperature, typically R-502 or R-22 Refrigeration systems. Used with traditional mineral oil. It can also be used with alkyl benzene and ester lubricants. It has Zero Ozone Depletion Potential.

COMPATIBILITY

Compatible with metals, plastics and elastomers traditionally found in refrigeration systems and compressors. Compatible with HFC system materials.

PACKAGING AND TRANSPORT

- * Packaging:
 - Steel pressure cylinders (returnable), 11.5 kg, 56kg and 900 kg net weight.
 - Steel pressure cylinders, 12.5 kg net weight.
 - Pressurised ISO tanks

* Transport : INLAND

- UK Carriage of Dangerous Goods & Transportable Pressure Equipment Regulations (2004)

- International legislation (RID-ADR)

SEA FREIGHT (IMDG) AIR FREIGHT (IATA)

STORAGE CONDITIONS

Store cylinders out of direct sunlight and away from heat sources.

Please consult our Material Safety Data Sheet** for more detailed information.

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SAFETY INSTRUCTIONS

Please consult our Material Safety Data Sheet**

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WARNING TO USERS

The information contained in this document is given in good faith based on our current knowledge. It is only an indication and is in no way binding, particularly as regards infringement of or prejudice to third party rights through the use of our products.

We quarantee that our products comply with our sales specifications.

This information must on no account be used as a substitute for necessary prior tests, which alone can ensure that a product is suitable for a given use. Users are responsible for ensuring compliance with local legislation and for obtaining the necessary certifications and authorisations.

Users are requested to check that they are in possession of the latest version of this document and we are at their disposal to supply any additional information.



Regulated:

For more details, please consult our Material Safety

Data Sheet**.