



R-500

Also known as: CFC-500, Freon-500 Genetron-500, Forane-500

Freon is a registered trade name for E. I. DuPont. Genetron is a registered trade name for Allied Signal Corporation. Forane is a registered trade name for Elf Atochem

www.refrigerantsupply.com

6581 Mad River Road, Dayton, OH 45459 | Phone: (877) 234-5667 | Fax: (937) 439-0046

General Information

Chemical Formula	CAS Registry #	Color & Odor	Refrigerant Applications
Azeotropic Blend of R-12 and R-152a	75-71-8 and 75-37-6	Colorless Pressurized liquid with slight ether like odor	Commercial air conditioning

Physical Data

Molecular Mass	Boiling Point C°	Boiling Point F°	Critical Temperature C°	Critical Temperature F°	Critical Pressure MPa	Critical Pressure psia
99.33	-33.6	-28.5	102.1	215.8	4.17	605

Toxicity & Global Warming Data

TLV-TWA	Years of Atmospheric Lifetime	Ozone Depletion Potential	Global Warming Potential
1,000		0.605	4080

Packaging Information

Packaged in	Volumes available in pounds	Color of Container
Pressurized cylinders	30, 50, 125, 875, 1,750	Yellow

Shipping Information

DOT Shipping Name	Hazard Class	UN/NA Number	Packing Group	Labels Required
Dichlorodifluoromethane and difluoroethane azeotropic mixture	2.2	UN2602		nonflammable gas

ARI 700 Reclaim Standards

Allowable Comp. Weight %	Air and other non-condensables % by volume @ 25°C	Water in ppm by weight	All other impurities including refrigerants as % by weight	Oil and other high boiling residues as % by volume	Particulates/solids visually clean to pass	Acidity as ppm by weight	Chloride (pass/fail is 3 ppm)
72.8-74.8 25.2-27.2	1.5	10	0.50	0.05	pass	1.0	pass

(See also pages 2 & 3)

THE DATA PRESENTED ON THIS DATASHEET HAS BEEN COLLATED FROM A NUMBER OF SOURCES. THE DATA HAS NOT BEEN VALIDATED. USE THIS DATA AT YOUR OWN DISCRETION - REFRIGERANT SUPPLY INC. DOES NOT GUARANTEE ITS ACCURACY, OR ITS APPLICABILITY TO ANY PURPOSE.

Refrigerant Supply Inc provides this information in its website as a free value to anyone who cares about environmental or chemical issues. The sources of this information could not be validated. This site is a compilation of information meant for casual reference only. Refrigerant Supply Inc. assumes no liability whatsoever for the accuracy or use of the information offered. It is hoped that this resource provides users with a heightened interest in such matters, stimulating independent research and review. Any matters which need professional attention may be brought to our attention via Email.

All rights reserved Refrigerant Supply Inc. 1999

Alternative Refrigerant Options for R-500

 (Alternative will require retrofit and maybe new equipment)
 (These alternatives may or may not be officially approved by the various governmental agencies)

Alternative	Composition	Manufacturers	Trade Names
HFC-134a	N/A	Dupont	SUVA -134a
		Allied Signal	Genetron 134a
		Elf Atochem	Forane 134a
		ICI Americas	KLEA 134a
		Others	R-134a
R-401a	HCFC-22 - 53% HFC-152A - 13% HCFC-124 - 34%	DuPont	SUVA MP-39
R-401b	HCFC-22 - 61% HFC-152A - 11% HCFC-124 - 28%	DuPont	SUVA MP-66
R-406a	HCFC-22 - 55% HCFC-142B - 41% Isobutane - 4%	Monroe Air Tech	GHG, McCool
HCFC Blend Lambda	HCFC-22 HCFC-142B Isobutane	Monroe Air Tech	GHG-HP
R-409a	HCFC-22 - 60% HCFC-124 - 25% HCFC-142B - 15%	Elf Atochem	FX-56
HCFC Blend Delta	HFC-134a HCFC-142b Proprietary Lubricant Additive	Cool EZ	RB-276
FR-12	HFC-134a HCFC-124 R-600 (Butane)	Intermagetics	FRIGC FR-12
HCFC Blend Alpha	HCFC-22 HCFC-142b	Unknown	Unknown

THE DATA PRESENTED ON THIS DATASHEET HAS BEEN COLLATED FROM A NUMBER OF SOURCES. THE DATA HAS NOT BEEN VALIDATED. USE THIS DATA AT YOUR OWN DISCRETION - REFRIGERANT SUPPLY INC. DOES NOT GUARANTEE ITS ACCURACY, OR ITS APPLICABILITY TO ANY PURPOSE.

Refrigerant Supply Inc provides this information in its website as a free value to anyone who cares about environmental or chemical issues. The sources of this information could not be validated. This site is a compilation of information meant for casual reference only. Refrigerant Supply Inc. assumes no liability whatsoever for the accuracy or use of the information offered. It is hoped that this resource provides users with a heightened interest in such matters, stimulating independent research and review. Any matters which need professional attention may be brought to our attention via Email.



R-500

Also known as: CFC-500, Freon-500 Genetron-500, Forane-500

Freon is a registered trade name for E. I. DuPont. Genetron is a registered trade name for Allied Signal Corporation. Forane is a registered trade name for Elf Atochem

www.refrigerantsupply.com

6581 Mad River Road, Dayton, OH 45459 | Phone: (877) 234-5667 | Fax: (937) 439-0046

R-405a	HCFC-22 - 45% HFC-152a - 7% HCFC-142b - 5.5% Cycloperfluorobutane - 42.5%	GU/Greencool	G2015
Hydrocarbon Blend A	R-209 (propane) R-600 (butane)	OZ Technologies	OZ-12
Hydrocarbon Blend B	Hydrocarbons	OZ Technologies	HC-12a

Freon and SUVA are registered trade names for E. I. DuPont. Genetron is a registered trade name for Allied Signal Corporation. Forane and FX-56 are registered trade names for Elf Atochem. Klea is a registered trade name for ICI Americas. GHG, McCool Auto Frost, and Chill-It are registered trade names for Monroe Air Tech. RB-276 is a registered trade name for Cool EZ. FRIGG is a registered trade name for Intermagnetics. Hot Shot, and Car Kool are registered trade names for Icor. ADAK is a registered trade name for TACIP International. OZ-12 and HC-12a are registered trade names for OZ Technologies.

THE DATA PRESENTED ON THIS DATASHEET HAS BEEN COLLATED FROM A NUMBER OF SOURCES. THE DATA HAS NOT BEEN VALIDATED. USE THIS DATA AT YOUR OWN DISCRETION - REFRIGERANT SUPPLY INC. DOES NOT GUARANTEE ITS ACCURACY, OR ITS APPLICABILITY TO ANY PURPOSE.

Refrigerant Supply Inc provides this information in its website as a free value to anyone who cares about environmental or chemical issues. The sources of this information could not be validated. This site is a compilation of information meant for casual reference only. Refrigerant Supply Inc. assumes no liability whatsoever for the accuracy or use of the information offered. It is hoped that this resource provides users with a heightened interest in such matters, stimulating independent research and review. Any matters which need professional attention may be brought to our attention via Email.

All rights reserved Refrigerant Supply Inc. 1999