



>> R12

Dichlorodifluoromethane, a colorless gas at room temperature, is a nontoxic, non-flammable, colorless, transparent liquid under the pressure created by itself. It has excellent thermal and chemical stabilities. It does not corrode metals except magnesium and magnesium alloy. It does not dissolve in water, but can easily dissolve in hydrocarbons, halohydrocarbons and certain solvents at any ratio. As a convenient and safe refrigerant, it can be used in various refrigeration systems with a temperature range from -60 to 10. It can also be used in these fields such as spice industry, medical treatments and plastic industry.

CFC-12 Typical Properties :

Formula: CCl_2F_2

Boiling Point(101.3KPa,): -29.8

Critical Temperature(): 112.2

Critical Pressure (KPa): 4116.2

Density Kg/m³ : 1291.2

Specification :

Appearance	Colorless
Odor	Odorless
Purity %	99.8
Moisture %	0.0005
Acidity %,HCl	0.00001
Residue %	0.01

Package and Storage :

Cylinder with CFC-12 of 13.6,22.5kg, 40kg, 80kg, 500kg, 1000kg. Filling coefficient is not more than 1.14kg/L. Cylinder should be stored in cool, dry and ventilated place, and kept away from sunlight and rain.





>> R502

R502, a blend refrigerant of HCFC22 and CFC115. Mainly it is a substitute of R502. used specially in low temperature re-frigerating system

Typical Properties:

Molecular weight	111.6
BP,	-45.4
Ice point	-
Critical temperature ,	82.1
Critical pressure ,Mpa	4.07
Density of saturated liquid ₃₀ ,(g/cm ³)	1.217
Specific heat of liquid ₃₀ ,[KJ/(Kg)]	1.25
Specific heat of equipressure steam(Cp), ₃₀ and 101.3kPa[KJ/(Kg)]	0.147
ODP	0.18
GWP	3.8~4.1
Critical density,g/cm ³	0.566
Vaporization heat under BP,KJ/Kg	172.5

Package and Storage

disposable steel cylinder 12kg/30b; recyclable steel cylinder 350kg/400L,700kg/800L,800kg/926L





>> R124

Character:

HFC-124 is a colorless and transparent liquid at room temperature. Its main applications are:

1. As alternative to refrigerant CFC-114;
2. As fire extinguisher.

Physical Properties:

Formula: CHClFCF_3

Boiling Point (760mmHg,): -10.95

Critical Temperature (): 122.25

Critical Pressure MPa: 3.613

Critical Density g/cm³: 0.565

Density g/cm³, 25: 1.401

Heat of evaporation KJ/kg: 194.0

Heat capacity (25), liquid, KJ/kg : 1.13

ODP: 0.02

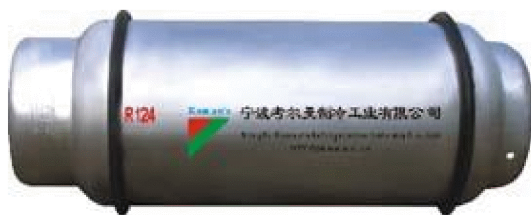
GWP: 0.10

Specification :

Appearance	Colorless and Transparent
Odor	Odorless
Purity %	99.8
Moisture (%)	0.001
Acidity (% HCl)	0.0001
Residue (%)	0.01

Package and Storage:

HFC-124 should be filled in a cylinder with filling coefficient not more than 0.9kg/L. It should be kept away from sunlight and rain during shipping. HFC-124 should be stored in cool, dry and ventilated place.





>> R152A

1,1-Difluoroethane(HFC-152a) is a gas at room temperature, but turns to be colorless and transparent liquid under the pressure created by itself. It dissolves in oil easily but in water difficulty, it is mainly used as refrigerant, intermediate of refrigerant and raw materials of fluororubbers.

Physical Properties :

Formula:CH₃-CHF₂
Boiling Point ():-24.7
Critical Temperature ():113.5
Critical Pressure KPa: 6160
Density kg/m³ : 912
Evaporation heat (b.p) (KJ/kg): 324.2

Specification :

Appearance:Colorless and Transparent
Odor:Odorless
Purity (%):99.9
Moisture (%):0.001
Acidity (HCl%):0.0001
Residue (%):0.01

Package and Storage :

Steel cylinders. Should be stored in dry, ventilated place, and kept away from sunlight or rain.

