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ICER

NINGBO ICER IE CO., LTD.

宁波艾色进出口有限公司



REFRIGERANTS SERIES PRODUCTS

制冷剂系列产品

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R22

CHLORODIFLUOROMETHANE



Product name: Chlorodifluoromethane (HCFC22)

Molecular formula: CHClF_2

Relative molecular mass: 86.47

Standard compliance: GB/T 7373-2006

Physical & Chemical properties: Under normal temperature and pressure, the product is a colorless, odorless and nontoxic gas. Its melting point is -160°C , its boiling point is -40.8°C and its liquid density is 1.213 g/cm^3 (at 20°C). Its mixture with air is nonflammable and free of explosion risk. It shows good thermal and chemical stabilities under normal conditions.

Application: The product is used as a refrigerant in household, industrial and commercial air-conditioning systems. It can also be used as an aerosol propellant for pesticide and paint, or as a fire extinguishing agent, It is a primary feedstock for fluoropolymers.

Storage & Transportation: The product is packaged in appropriate cylinders or tanks (or tank cars). It should be kept in cool and dry place, without being exposed to heat source, sunlight and raining, it is to comply with the regulations of railway and road transportation of China concerning hazardous cargo.

Package specifications:

Disposable cylinder: 15lb/6.8kg, 30lb/13.6kg, 50lb/22.7kg

Can: 1000G

Refillable cylinder: 12L, 60L, 926L, ISO-TANK



R134a

1,1,1,2-tetrafluoroethane



Product name: 1,1,1,2-tetrafluoroethane (R134a)

Molecular formula: $C_2H_2F_4$

Standard compliance: GB/T 18826-2002

Relative molecular mass: 102.03

Standard compliance: GB/T 18826-2016

Physical & Chemical properties: Under normal temperature and pressure, the product is a colorless gas with a slight scent of others. Melting point : -103.15°C, its boiling point: -26.1°C, density: 1.206g/cm³ at 25°C. It is normally stored as a liquid in steel cylinder under pressure. Its thermodynamic properties are similar to those of CFC12. Its ODP value is nil, and its GWP value is 1200.

Application: The product is used as a refrigerant in automobile air-conditioning, household and commercial refrigeration applications. It also can be used as an aerosol, a flame retardant and blowing agent in pharmaceutical, agrochemical, cosmetics and cleaning sectors.

Storage & Transportation: The product is packaged in steel cylinder or tank(or tank car), it should be kept in cool and dry place. Avoid heat source, kept away from sunlight and raining, transportation should comply with Chinese railway and road transportation regulations concerning hazardous cargo.

Package specifications:

Disposable cylinder: 30lb/13.6kg, 50lb/22.7kg

Can : 340G, 1000G

Refillable cylinder: 12L, 60L, 926L, ISO-TANK



R410A

Blend Refrigerant



Product name: R410A

Molecular formula: $\text{CH}_2\text{F}_2/\text{CF}_3\text{CHF}_2$

Relative molecule mass: 86.2

Standard compliance: Q/JHGS 207-2015

Application: The R410A is a product blended by R125 and R32, it could replace R22, used in refrigeration system at low-medium temperature.

Physical and chemical properties: Boiling point is -51.6°C . The critical temperature is 72.5°C , The critical pressure is 4.95Mpa. Its ODP value is nil.

Storage & Transportation: The product is packed in appropriate cylinders or tanks(or tank cars). It is to be kept in cool and dry place, without being exposed to heat source, sunlight and raining. It is to comply with the regulations of railway and road transportation issued by Chinese government concerning hazardous cargo.

Packing specifications:

Disposable cylinder: 25lb/11.3kg

Can: 750G

Refillable cylinder: 12L, 926L, ISO-TANK



R404A

Blend Refrigerant



Product name: R404A

Molecular formula: $\text{CHF}_2\text{CF}_3/\text{CF}_3\text{CH}_2\text{F}/\text{CH}_3\text{CF}_3$

Relative molecule mass: 97.6

Standard compliance: Q/JHGS 205-2015

Application: R404 is a product blended by R125, R134a and R143a, colorless gas under normal temperature, transparent liquid under pressure, it mainly used in refrigeration system at low-medium temperature.

Physical and chemical properties: Boiling point is -46.4°C . The critical pressure is 3470KPa; its saturation liquid density is 1.045g/cm³ at 25°C . Its ODP value is nil and its GWP value is 0.11.

Storage & Transportation: The product is packed in appropriate cylinders or tanks (or tank cars). It is to be kept in cool and dry place, without being exposed to heat source, sunlight and raining. It is to comply with the regulations of railway and road transportation issued by Chinese government concerning hazardous cargo.

Packing specifications:

Disposable cylinder: 15lb/6.8kg, 30lb/13.6kg, 50lb/22.7kg

Can: 650G

Refillable cylinder: 12L, 60L, 926L, ISO-TANK



R407C

Blend Refrigerant



Product name: R407C

Molecular formula: $\text{CHF}_2\text{CF}_3/\text{CH}_3\text{CF}_3$

Relative molecule mass: 98.86

Standard compliance: Q/JHGS 208-2015

Application: R407C is a product blended by R125 and R143a, it could replace R502, applied in big commercial air condition, freezer, etc.

Physical and chemical properties: Boiling point is -47.1°C . The critical temperature is 70.9°C , The critical pressure is 3.79Mpa. Its ODP value is nil.

Storage & Transportation: The product is packed in appropriate cylinders or tanks(or tank cars). It is to be kept in cool and dry place, without being exposed to heat source, sunlight and raining. It is to comply with the regulations of railway and road transportation issued by Chinese government concerning hazardous cargo.

Packing specifications:

Disposable cylinder: 25lb/11.3kg

Can: 650G

Refillable cylinder: 12L, 60L, 926L, ISO-TANK



R507

Blend Refrigerant



Product name: R507

Molecular formula: $\text{CHF}_2\text{CF}_3/\text{CH}_3\text{CF}_3$

Relative molecule mass: 98.86

Standard compliance: Q/JHGS 208-2015

Application: R507 is a product blended by R125 and R143a, it could replace R502, applied in big commercial air condition, freezer, etc.

Physical and chemical properties: Boiling point is -47.1°C . The critical temperature is 70.9°C , The critical pressure is 3.79Mpa. Its ODP value is nil.

Storage & Transportation: The product is packed in appropriate cylinders or tanks(or tank cars). It is to be kept in cool and dry place, without being exposed to heat source, sunlight and raining. It is to comply with the regulations of railway and road transportation issued by Chinese government concerning hazardous cargo.

Packing specifications:

Disposable cylinder: 25lb/11.3kg

Can: 650G

Refillable cylinder: 12L, 60L, 926L, ISO-TANK



R141b Refrigerant



Product name: 1,1-Dichloro-1-fluoroethane (HCFC-141b)

Molecular formula: $\text{CH}_3\text{CCl}_2\text{F}$

Relative molecule mass: 116.95

Standard compliance: GB/T18827-2002

Application: HCFC-141b can be used as foaming agent for rigid polyurethane (PU) foam instead of CFC-11. HCFC-141b can replace CFC-113 as cleaning agent and can also be used as refrigerant.

Physical and chemical properties: (1atm) ,32.05°C;Density:1.227g/cm³ at 25°C.Its ODP value is 0.11,and its GWP value is 0.09.

Storage & Transportation: The product is packed in appropriate cylinders or tanks(or tank cars). It is to be kept in cool and dry place,without being exposed to heat source, sunlight and raining. It is to comply with the regulations of railway and road transportation issued by Chinese government concerning hazardous cargo.

Packing specifications: 30LB/13.6kg disposable cylinder; 250kg drum, 25MT transport tank.



12L Refillable cylinder



60L Refillable cylinder

