

PRODUCT DESCRIPTION

Alpha R410a is a high-efficiency hydrofluorocarbon (HFC) refrigerant blend widely used in modern air conditioning and heat pump systems. It delivers superior cooling performance, enhanced energy efficiency, and reliable operation under high-pressure conditions.

Designed for new-generation HVAC equipment, R410A provides improved heat transfer and system capacity compared to older refrigerants. It has Zero ODP, making it a preferred choice for environmentally responsible cooling solutions.

APPLICATIONS

Residential Air Conditioning
Heat Pumps
Commercial HVAC
Refrigerated dryers

CHEMICAL PROPERTIES

Chemical Name	Difluoromethane (HFC 32) Pentafluoroethane (HFC 125)
CAS No.	75-10-5 (HFC 32), 354-33-6 (HFC 125)
REACH Registration	01-2119471312-47 (HFC 32) 01-2119485636-25 (HFC 125)
ECC No	200-839-4 (HFC 32), 206-557-8 (HFC 125)
Molecular Weight	72.58 (g/mol)
Form	Compressed liquefied gas
Color	Clear, colorless
Odor	Slight ethereal
Boiling Point	-51.8°C to -51.9°C
Vapor Pressure	10880 mm Hg at 20°C
Vapor Density	2.6 at bubble point temperature. (Air = 1)
Density	1.09 g/cm ³ at 20°C
Water Solubility	Insoluble in water; Soluble in: chlorinated solvents, alcohols, esters.
Partition coefficient	Log pow = 0.2 (R32), Log pow = 2.3 (R125)
Critical Temperature	72.5°C
Critical Pressure	4.95 Mpa
GWP	2088
ODP	Non-Ozone Depleting

PACKAGING



- 11.3kg Disposable Cylinders
- 10kg Refillables
- 45kg Refillables
- 740kg Roll Drums
- 18,000kg ISO Tanks