



REFRIGERANT

HYDROCARBON BLEND REFRIGERANT

K-30 Refrigerant
 K-30 Refrigerant is a drop-in hydrocarbon refrigerant for R12 & R134a for a variety of applications

Product Description
 Colourless gas Non Corrosive
 Non Irritating Flammable

Applications
 Domestic air conditioning, Automotive Air Conditioning, Agricultural Air Conditioning, Refrigerators & Freezers

Suitable Compressor Lubricants for use with K-30 Refrigerant

- Mineral Oils (M)
- Poly Alpha Olefin (PAO)
- Polyalkylene Glycol (PAG)
- Poly Ester Oils (PEO)

Replacing R134a in a system with K-30 Refrigerant
 Replace drier if one is present in existing system

Component Changes Required	
Drier	Replace
Thermostatic expansion valve	May require super heat adjustment or a change may be required depending on the system
System Charge	Charge with 30% of rated R134a charge



Suitable Elastomeric Materials

Material	Recommendation
Neoprene	Suitable
Viton	Suitable
Nitrile Rubber	Many grades are Suitable
PTFE	Suitable
Nylon	Suitable

NOTE: Care should be taken on systems with Thin Wall Barrier Hose



Physical Properties

	K-30	CFC12	HFC 134a	
Boiling Point: °C	-30	-29.93	-26.5	
Molecular Weight:	52.0	120.93	102.23	
Heat of Vaporization @ 0°C (kJ/kg)	367	149.8	198.7	
Stability:	Thermal:	Stable	Stable	Stable
	Chemical:	Stable	Stable	Stable
Erosive:	No	No	No	
Flammability: (LFL & UFL, %)	1.9-9.5	NONE	NONE	
Auto Ignition Point: °C	-460 - -470	NONE	750	
Toxicity:	No	NO	YES	
GWP: (Global Warming Potential)	3	8,100	1,300	
ODP: (Ozone Depleting Potential)	0	1	0	
Lubricant:	Mineral/PAG/PAO	Mineral	PAG	

Distributed By: Kiro Refrigerants Pvt. Ltd.
 4380/4B, Ansari Road
 Daryaganj, New Delhi - 110002

