

## R-507 (English version)

Chemical name: Pentafluoroethane / 1,1,1 - Trifluoroethane  
 Formula:  $\text{CHF}_2\text{CF}_3$  /  $\text{CH}_3\text{CF}_3$

### Specification / grade

Samenstelling	R-125	Min. 49 – Max 51	weight %
	R-143a	Min. 49 – Max. 51	weight %
Verontreiniging	Moisture		10 ppm
	Residue		50 ppm
	Acidity as HCl		0,1 ppm
	Non- soluble gases in evaporated phase		1,5 vol %

### Cylinder / content specification

	$V_{cyl}$ (l)	$m_{gas}$ (kg)	Product code
Cylinders	12	10.0	5520112
	27	22.5	5520127
	61	49.0	5520161
Bundle barrel	900	765	5521190

### Cylinder characteristics

Colour according to standard	--		
Shoulder	Pure white	RAL 9010	
Cylindrical part	Pure white	RAL 9010	
Connection according to NEN 3268	RU 1		

### Thermo physical properties

Average molecular weight (kg/kmol)	98.9		
Density saturated vapour (kg/m <sup>3</sup> -15 °C)	19.7		
Density liquid (kg/m <sup>3</sup> at 25 °C)	1047		
Boiling point (°C) (K)	-49.2	respective	224.0
Critical temperature (°C) (K)	70.9	respective	344.1
Vapour pressure (bar at 25 °C)	12.87		

### Additional information

Material Safety Data Sheet	Cooling gas R 507 (VIB nr. 9212)
Product description	Colourless liquid with ethereal odour
Designation according to ASHRAE	R-507
Ozone depletion potential (O.D.P.) (CFK - 11 = 1)	0
Warming up factor (HGWP) (CFK - 11 = 1)	0.96

### Applications

Low temperature transport	Cooling agent for temperature area between -50 °C and -5 °C
Low to average temperature for commercial cooling	