

Asahi Flon-22 moisture solubility

Because Asahi Flon has a chemical structure that is non-polar, it dissolves non-polar materials well, and has a tendency to hardly dissolve polar materials. In other words, it has very little solubility with strongly polar water and alcohol, but dissolves comparatively well in refrigerator oil which has weak polarity.

Saturated moisture solubility of Asahi Flon-22 when saturated

Temperature °C	Saturated moisture solubility (mgH ₂ O/kgR-22)		Gas phase moisture content ratio
	Saturated gas	Saturated liquid	
-40	25	120	0.205
-30	46	186	0.247
-20	82	282	0.291
-10	140	419	0.334
0	229	596	0.383
10	326	830	0.393
20	450	1,110	0.405
30	600	1,490	0.403
40	774	1,890	0.41

Solubility of Asahi Flon-22 superheated steam in water

Temperature °C	Pressure (kPa)				
	100	200	500	1,000	2,000
Solubility (gR-22/dm ³ H ₂ O)					
10	5.83	11.7	29.2		
20	3.46	6.93	17.3		
30	2.35	4.7	11.8	23.5	
40	1.74	3.49	8.72	17.4	
50	1.37	2.75	6.87	13.7	
60	1.13	2.26	5.66	11.3	22.6
70	0.963	1.93	4.82	9.63	19.3
80	0.841	1.68	4.2	8.41	16.8