

# CFC

1931 Dupont CFC-12 CFC-11, CFC-113,  
 CFC-114가 HCFC-22가 CFC가 CFC(Chloro Fluoro  
 Carbon)

CFC

CFC가

가

CFC

CFC ( : M/T)					
2	1970 ~ 1976	1977	2,000	,	
22	1979 ~ 1981	1983	2,000	,	
	1977 ~ 1983	1985	3,300	CFC	
1/12	1983 ~ 1986	1987	10,000	,	
1301/1211	1977 ~ 1984	1987	500		
	1985 ~ 1988	1989	5,000	CFC	
3	1985 ~ 1988	1990	7,000		
22	1990 ~ 1994	1994	7,500	,	

CFC ( : 100)					
					199
	HFC-134a	KIST	3,368	91 ~ 95	Pilo
	HFC-152a	KIST	1,600	92 ~ 95	
	HCFC-123	KIST	2,433	91 ~ 96	
	HFC-125				
	HCFC-141b		2,260	92 ~ 94	
	142b				
			9,651		

CFC

CFC-11, CFC-12 96

가 2005

1 0.3 Kg

가

CFC

91 11

92 7

KIST

, 91

HFC-134a, HFC-152a, HCFC-123, HFC-125 4

KIST CFC

, 91

95

1

96

3 CFC

KIST 91 95 33 6800

HFC-134a

93 7 Pilot

Plant , 가

134a CFC-11, 12

가 가

가

CFC 가 10 GNP 4 35%  
 가 10%

CFC-11 94 4554 , 485 , 86 5125 95  
 4605 , 434 , 86 5125 , 94 5000

CFC-12 94 418 , 3205 , 61 3684 95  
 34% 277 , 4.4% 가 3347 , 가 56 3680 94  
 0.1%

CFC-11, CFC-12 9000 1 134a  
 100 가

134a가 가

HFC-134a ( : M/T)			
Dupont	2,000	1990	
Dupont	30,000 ~ 50,000	1993	
Allied Signal	(13,600)	1994	
ICI	10,000 ~ 20,000	1992	
Elf Atochem	(18,000)	1995	
	42,000 ~ 72,000(103,500)		
Dupont	(6,600)	1994	
ICI	5,000	1991	
Elf Atochem	9,000	1992	
Rhone Poulenc		1993	
Hoechst	10,000	1993	
	900	1992	
Montefluos	2,500	1991	
	16,500 ~ 27,400(3,400)		
Dupont	9,000	1992	
ICI	5,000 ~ 10,000	1993	
Daikin	5,000	1991	
Showa Denko	5,000	1992	
Asahi Glass	5,000	1992	
	29,000 ~ 34,000		
	87,800 ~ 133,700(171,500)		

) ( )

( : )				
			1994	1995
CFC-11			1,546	2,312
			2,398	1,877
			610	416
	( )		(4,554)	(4,605)
			239	162
			246	272
CFC-12		( )	(485)	(434)
			5	5
			81	81
			5,125	5,125
			418	277
			582	823
CFC-12			1,091	731
		( )	(3,205)	(3,347)
			61	56
CFC-113		3,684	3,680	
CFC-113			1,284	1,132
CFC-114			10	10
			2	1
CFC-115			12	11
		R-502	38	38
CFC			10,147	9,986
Halon - 1211			445	450
- 1301			2,625	2,650
- 2402				
Halon			3,070	3,100
			13,217	13,086

HCFC-141b 142b 94

22 6000

94 10 HCFC-141b 5000

HCFC-141b 1

HCFC-141b 가 가

95 , 95  
 94 1 3086  
 A CFC 가  
 1 0.3Kg 94 1 0.297Kg,  
 95 0.292Kg 1 3086 369  
 A CFC 가 가 95 94  
 119 가 1 3455 95 94  
 B CFC-13, 1,1,1-TCE, 95 8970  
 2265  
 CFC-11 CFC-11 94 4554 95 4605  
 가 , 94 485 434  
 81 CFC-11 94 5125 , 95 5125  
 CFC-12 94 418 95 277 , 94 3205 95 3347 94  
 3684 95 3680  
 CFC-113 94 1284 95 1132 , CFC-114 12 11 , CFC-115 38  
 94 1 147 95 9986

CFC		( : M/T)				
		1990	1991	1992	1993	1994
CFC-11		2,075	6,350	5,880	4,984	5,125
		3,313	7,041	4,719	85	
		5,388	13,391	10,599	5,069	5,125
CFC-12		4,771	5,862	3,806	3,523	3,684
		384	2,518	1,830	11	
		5,155	8,830	5,636	3,534	3,684
CFC-113		62	61			
		5,435	5,824	4,514	2,150	1,610
		5,497	5,885	4,514	2,150	1,610
		(4,343)	(4,708)	(3,611)	(1,720)	(1,288)
CFC-114/115		163	158	100	41	75 (50)
		6,919	12,273	9,686	8,507	8,809
		9,284	15,541	11,163	2,287	1,685
		16,203	27,814	20,849	10,794	10,494
		(15,140)	(26,637)	(19,944)	(10,352)	(10,147)

) ODP (ODP : CFC-11/12/114 1.0, CFC-115  
 0.6, CFC-113 0.8

CFC

KIST 3 CFC

KIST 96 5 14  
 , 3 CFC

CFC

CFC가 가

CFC

가

HCFC-22가

가

가

HCFC-22 CFC-12 5 가  
 가 가  
 CFC-12 10 가 가  
 가 HCFC-  
 22/HCFC-142b CFC-12 가  
 가  
 CFC 2가  
 CFC HCFC(Hydro Chloro Fluoro  
 Carbon) CFC-12 CFC  
 가 HFC(Hydro Fluoro Carbon)  
 HCFC HFC가  
 가 3 CFC 88  
 CFC  
 HFC-134a 4 96 100  
 가 20 가  
 32 7800 , 가 43  
 ICI가 134a 1 , Dupont 3