

< >

“ ”

...

가 가
70
10 GNP 15.8%
12% 가
93 1 1500 73 180 92 97%
12.7% 6.5%,

(: M/T, %)						
	1991		1992		1993	
Alkydenamal Amino Alkid	17,925	12.53	21,159	18.04	25,752	21.71
	18,161	16.96	22,224	22.37	24,465	10.08
	47,368	6.35	45,832	3.24	45,652	0.39
	29,798	23.70	26,523	10.99	28,027	5.67
	12,910	1.87	16,224	25.67	12,912	20.41
	3,230	22.02	3,772	16.78	2,878	23.70
	12,567	21.77	22,203	76.68	21,814	1.75
	24,356	2.57	29,104	19.49	36,621	25.83
	40,519	9.87	49,692	22.64	58,031	16.78
	12,637	11.08	20,726	64.01	15,109	27.10
	11,559	16.56	14,475	25.23	15,134	4.55
	107,500	11.72	117,695	9.48	131,475	11.71
	7,811	7.39	16,675	113.48	11,118	33.33
	1,377	9.89	2,633	91.21	2,772	5.28
	13,899	20.52	17,609	26.69	22,799	29.47
	57,566	18.40	67,216	16.76	67,926	1.06
	158,801	27.06	146,771	7.62	156,754	6.80
	577,264	10.63	640,533	10.96	679,237	6.04
	35,091	84.40	44,837	27.77	50,943	13.62
	612,355	12.78	685,370	11.92	730,180	6.54

가 가 가
92 26.7% 93 29.5% ,
가 93 25.8%
90 3
가 29.2%
가 29.6% 가 4.1%,
1.8%, 7.3%, 2.3%, 18.4%, 7.7%, 2.1%,

1.3%, 27.6%

가 가

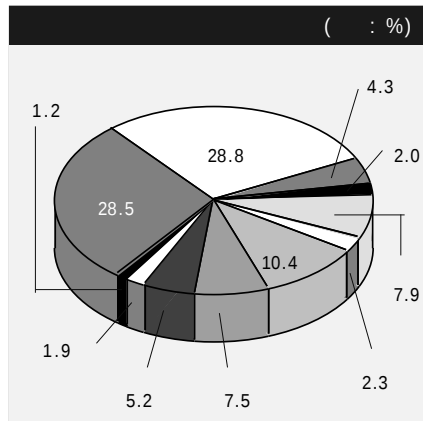
가 가

가

DIY

가 가

70%()
(Rutile) 50%
40% , 60%



(: %)		
	1992	2000
	58	30
	4	8
	30	40
	3	10
	5	9
	-	3
	100	100

· A profile for the Asian Pacific industry JRL December 1992

가 90%

75%

가

90

, Akzo · Total · Casco-Nobel

, ICI · PPG ·

DSM · Courtaulds · Beeker

ICI

· 가

· Can

, PPG

, Courtaulds

· 가 ·

88

75%

2000

70%

88

9%

12%

20

100

(

47

50

)

9%,

200

8%

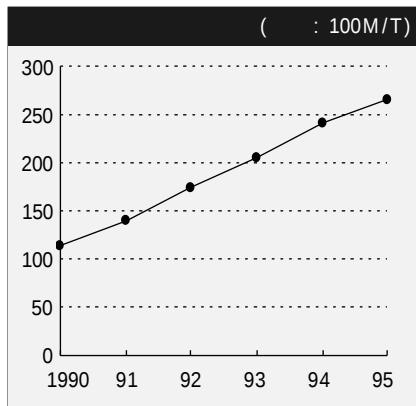
5%

3

87

1%

가



(: 100 , %)			
	1991	1995	
T i O ₂	2,400	2,800	3.9
	1,210	1,480	5.2
	900	1,100	5.1
	270	320	4.3
	40	60	10.7
	5,000	4,700	1.5
	180	210	3.9
	2,000	2,400	4.7
	10,790	11,590	1.8

가

가

가가

()

가

3~5%

1~3%

가

()										(: kℓ, %)	
		1990		1991		1992		1993		1994()	
		144,633	31.2	154,100	29.2	172,222	29.6	195,620	28.8	198,000	28.9
		36,518	7.8	37,997	7.2	42,352	7.3	47,547	7.9	50,025	7.3
		16,688	3.6	20,328	3.9	23,725	4.1	29,207	4.3	32,300	4.7
		12,516	2.7	15,031	2.8	10,304	1.8	13,585	2.0	14,000	2.0
		51,919	11.2	55,413	10.5	63,382	11.1	70,641	10.4	80,640	11.7
		37,085	8.0	39,881	7.5	42,339	7.3	50,943	7.5	46,000	6.7
		20,397	4.4	25,387	4.8	33,314	5.7	35,320	5.2	25,000	3.6
		11,589	2.5	11,810	2.2	13,099	2.3	15,622	2.3	16,150	2.4
		9,271	2.0	12,138	2.3	11,988	2.1	12,906	1.9	13,200	1.9
		5,563	1.2	6,333	1.2	7,557	1.3	8,151	1.2	9,400	1.4
		117,746	25.4	144,690	28.4	160,200	27.6	193,583	28.5	203,000	29.5
		463,566	100.0	522,807	100.0	581,482	100.0	619,193	100.0	687,715	100.0

70%

가

가

2000

, VOC

10

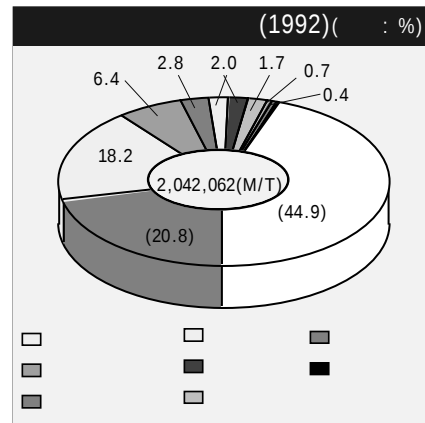
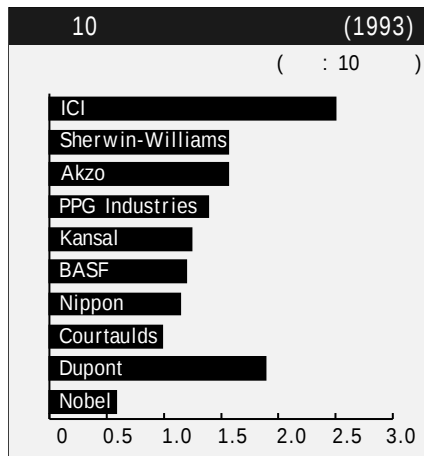
2004

50% 30%

가

Green Round

가



92

123

91

114

가

가

97

130

2%

92

ICI가 25 5000

, Sherwin Williams Akzo가 17 5000 , 17

70

R&D

, 80

93

Sherwin Williams가 2 5000

, RPM 1

Stonehard

Ferro 7500

ICI

가

96

가

VOCs

VOCs

96

25%, 2003

45%

EPA

가

(: 100M/T)				
		1992	1997	2002
		940	1,200	1,565
		38	97	125
		2,090	2,263	2,625
		420	760	1,220
		325	565	912
		3,813	4,885	6,447
	가	98	147	236
		95	154	214
		230	290	415
		68	95	130
		50	83	120
		9	15	26
		550	784	1,141
A U S	170	190	215	
	32	33	38	
	-	3	3	
	-	1	1	
	202	227	257	
		4,564	5,896	7,845

10 (: %)		
1	關 西	7.5
2	日 本	6.9
3	大日本	2.8
4	I C I	2.5
5	Courtaulds	1.6
6	中 國 塗 料	1.5
7	神 東 塗 料	1.4
8	W a t t y l	1.2
9	J o t u n	0.6
10	A K Z O	0.5
		73.5
		100.0

91 가 , 92~93 가

88 가 7.8%

90

91

가

91 4.2% , 92 3.1% , 93 5.2% 가

93 195 6500 7418 6.6%, 5.0%

194 862

(: M/T, %,)							
	1987	1988	1989	1990	1991	1992	1993
	189	203	212	220	210	204	195
	3.7	7.8	4.3	3.5	4.2	3.1	5.2
	6,539	7,007	7,389	7,905	8,146	7,864	7,418
	0.4	7.2	5.5	7.0	3.0	3.5	6.6

(: M/T, 100				
1988	57,332	25,415	17,244	9,277
1989	58,247	29,093	20,352	10,820
1990	65,411	33,877	18,021	11,296
1991	62,513	35,264	17,390	10,647
1992	66,103	40,280	17,002	10,175

가 5.5% 가, (

)가 6.8% 가

10%

13.8%

, 11.1% , 11.8%

10

94 0.5% 190 2000

가 1% 가가

90
6103
가
2.2%
가
1 7000
92
5.7%
가 6
, 92 567 85.8%

19.0%, 가 11.6%

50.8%

2003 50%
25%
50%
가
VOC가 98 30%,

< 1994/5/16>