

<

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가

Hitech

가

Up Stream

Down Stream

80

가

가

가

EC

CO2

Bayer 90

CO2

10 DM

< 1>

(1990) (:100)

가		(FOB)	(CIF)		(1000)
	100,562	52,275	32,835	7,737	592.4
	50,622	23,742	19,318	3,304	317.3
	64,221	26,704	23,501	4,242	263.1
	51,582	12,945	21,553	2,855	217.0
	28,086	20,662	17,371	2,693	96.0
	26,306	24,082	14,181	2,361	93.0
	4,153	3,264	3,668	323	27.0
	4,711	3,802	2,562	NA	13.5
	40,320	6,230	10,419	1,030	240.0
	(4,614)	1,035	2,803	NA	(63.8)
E C	376,010	174,742	148,211	24,544	1,859.9
	15,399	13,262	7,648	NA	73.3
	(4,035)	1,686	2,898	(434)	(19.9)
	3,578	2,241	2,222	(184)	14.7
	8,378	4,307	5,194	676	41.0
	8,027	3,472	4,851	905	56.6
	415,920	199,711	171,024	26,125	2,045.5
	285,612	38,983	22,468	11,278	1,085.4
	163,310	15,851	16,029	17,055	397.0

) 1989 , NA

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< 2>

1990 (:100)

				R&D
BASF()	31,195	741	2,983	1,384
Hoechst()	30,017	1,135	2,274	1,798
Bayer()	27,863	1,259	2,467	1,832
ICI()	24,909	1,293	1,955	1,310
Rhone-Poulenc()	15,483	216	1,481	1,039
Ciba-Geigy()	15,459	810	1,615	1,609
Elf Aquitainebe()	14,323	NA	1,361	225
Enichem()	13,363	-56.7	1,627	343
R.D. Shell())	12,703	1,002	1,251	349
Atochem()	10,297	NA	NA	226
Akzo()	10,229	393	670	528
Sandoz()	9,703	759	996	948
Solvay()	8,265	516	1,182	416
Roche()	7,585	744	712	1,133
Huls()	6,829	65	745	264
DSM()	6,028	509	777	252
BP()	5,791	NA	729	NA
L'Air Liquide()	5,680	437	779	144
Norsk Hydro()	5,165	463	461	165
BOC()	4,945	454	578	117

) rate

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Pilot Plant Test

가

가,

가

(2~3)

가

가

가 39DM

6%

가

< 3>

(1990)

(:100 , %)

< 4>

(:%)

가		EC				EC			
E C	174,742 (100.0)	104,399 (59.8)	124,831 (71.4)	46,109 (26.4)	148,211 (100.0)	105,142 (70.9)	119,978 (80.9)	25,672 (17.3)	27,273
	52,275 (100.0)	28,598 (54.7)	37,444 (71.6)	14,831 (28.4)	32,835 (100.0)	21,290 (64.8)	25,854 (78.7)	6,981 (21.3)	19,440
	23,742 (100.0)	12,984 (54.7)	15,229 (64.1)	8,513 (35.9)	19,318 (100.0)	14,009 (72.5)	16,025 (83.0)	3,293 (17.0)	4,425
	26,704 (100.0)	16,232 (60.8)	18,830 (70.5)	7,874 (29.5)	23,501 (100.0)	16,690 (71.0)	18,941 (80.6)	4,560 (19.4)	3,203
	12,945 (100.0)	7,128 (55.1)	8,889 (68.7)	4,056 (31.3)	21,553 (100.0)	15,700 (72.8)	18,543 (86.0)	3,011 (14.0)	-8,608
	199,711 (100.0)	117,681 (58.9)	141,211 (70.7)	54,699 (27.4)	171,024 (100.0)	121,999 (71.3)	139,588 (81.6)	28,874 (16.9)	25,825
	38,983 (100.0)	10,510 (27.0)	10,510 (27.0)	28,473 (73.0)	22,468 (100.0)	9,729 (43.3)	9,729 (43.3)	12,739 (56.7)	16,515
	15,851 (100.0)	2,843 (17.9)	3,179 (20.1)	12,672 (79.9)	16,029 (100.0)	5,190 (32.4)	6,472 (40.3)	9,557 (59.6)	-178

) EC,

가가

가

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	1981	1985	1990	1990
	8.0	7.7	7.0	20
	21.1	21.7	16.3	10
	10.9	15.3	16.8	9
	4.0	3.8	3.4	9
	4.1	3.8	4.5	8
	3.1	2.7	3.0	8
	4.0	4.3	5.3	5
	14.8	14.3	16.6	4
	3.3	3.3	4.3	3
	2.2	2.6	2.3	3
	24.5	20.5	20.5	17

4159 (EC 3760) (2856) 15 ,
(1633) 2.5
89 1 1324 31%, 23%,
15%, 14%, 17%
90 가 , 24% 15%,
12%, 10%, 가 6~7%, 가
4%
가
50% , 40%, EC
46% 70~90%
14% 10%
60%, 70%
27%, 17%
27% 43%
20%, 40%
90 523 , 100

1 EC 20 26 , 41

가 1

1 16 ~17

24

가

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(: DM, %,)

					1			
						(DM)	100 DM	
1978	53	10.2	23	—	4.8	9,400	570	2.6
1979	55	3.8	29	26.1	4.3	9,800	512	10.2
1980	64	16.4	34	17.2	5.0	11,200	561	9.6
1981	65	1.6	33	2.9	4.7	11,600	627	11.8
1982	63	3.1	31	6.1	4.4	11,200	671	7.0
1983	60	4.8	30	3.2	3.9	11,000	701	4.5
1984	64	6.7	35	16.7	3.8	11,600	599	14.5
1985	71	10.9	44	25.7	4.0	12,800	617	3.0
1986	87	22.5	41	6.8	5.2	15,300	822	33.2
1987	96	10.3	44	7.3	5.7	16,800	1,034	25.7
1988	105	9.4	60	36.4	5.9	18,300	1,446	39.8
1989	117	11.4	80	33.3	6.1	20,100	2,053	42.0
1990	125	6.8	76	5.0	6.5	21,100	—	—

:Chemiewirtschaft in Zahlen(VCI, 1992)

가

가가 가
High Chem

가 Hoechst

80

가

Hoechst

84

, LDPE

, 85

PS

10

, Laser Printing System Eocom , 81

500

川越

, 85

IC

Bayer 80 3~6% 8~9% ,
 28% 91 44%
 80 25 ~26 DM 91 36 DM 12
 DM 30 DM 가
 Hoechst · BASF · Bayer 3 91
 , Hoechst (56%), (31%),
 (23%), (19%)
 32% 가
 Bayer ,
 70% (55%) (15%)
 10 , 85 71 DM 90 125 DM
 80 4% 5~6%, 90 6.5%
 1 10 가 80 10%
 , 90 17.5% , 30~40% 가
 가
 가 가 80 30 DM 90 80 DM
 가
 EC , M & A 가
 ,
 EC가 35% 1 , 34%, 31%가 ,
 ,
 Research Oriented 가가 , M & A
 High Tec 가
 < 1992/9/1>