

< 45 1990 >

가,

1990

, Glaxo · Astra

Elf Atochem 97.1%

Texas Gulf (Elf 85%)

(Norsk Hydro, Degussa, Unilever, Montedison, Nobel, RWE,

Veba)

< 1> 가가

(:100 , %)

Bayer	18,798	(0.2)
Hoechst	11,492	(2.4)
Ciba-Geigy	10,853	(4.4)
BASF	10,004	(10.0)
ICI	7,994	(5.5)
Akzo	6,454	(7.8)
Sandoz	6,404	0.1
Roche	4,206	N/A
L'Air Liquide	3,934	(0.8)
Solvay	3,709	4.9
Hüls	3,218	8.3
Schering	2,527	2.9
DSM	1,982	(10.5)
BOC	1,963	12.1
Kemira	1,698	10.3
Wacker Chemie	1,363	(0.2)
EMC	854	2.9

< 2> 90

(:100 , %)

ICI	1,293	(36.6)
Bayer	1,259	(9.7)
Hoechst	1,135	(20.4)
Shell	1,002	(46.6)
Ciba-Geigy	810	(33.7)
Sandoz	759	0.9
Roche	744	11.3
BASF	741	(45.1)
Solvay	516	(4.6)
DSM	509	(37.8)
BOC	454	7.7
L'Air Liquide	437	4.6
Akzo	393	(30.5)
Rhône-Poulenc	216	(63.6)
Nobel Industries	209	(14.6)
Schering	173	14.7
Laporte	138	14.1
AGA	102	39.9
UCB	75	0.5
Hüls	65	(71.6)
Perstorp	62	27.3
Wacker Chemie	55	(28.7)
Dyno Industrier	25	(48.8)
Kemira	4	(57.1)
EMC	4	(92.2)

, BASF, Hoechst, Bayer, ICI 가

50:50 가

. Rhône-Poulenc , 89 ~ 90

, ICI Tioxide Bayer Polysar

, 90 2 ~ 4%

89 가 6 4

90	1
가가 :Bayer 187 9800	
가가 가 :BOC 12.1%	
:ICI 12 9300	
가 :AGA 39.9%	
R&D :Bayer 18 3200	
R&D 가 :Elf 46.1%	
가가 :Sandoz 12 1655	
가가 :Ciba-Geigy 70.2%	
:BASF 311 9500	
가 :Total 104.5%	
:Shell 59 8737	
가 :Elf 63.4%	
:Perstorp 42.8%	
:Laporte 23.8%	
:BASF 29 8300	

Atochem 가 Orkem ,
 , Total
 90 Enichem Montedison
 Enimont 가 ,
 40% (blind auction)
 Enimont Eni가 , Enichem
 90 가 ,
 50% 가 89 30% 가
 Rhône-Poulenc 5 가
 (borrowings) 64% 가

ICI 37% . ICI가
 34%
 . Shell Chemical () 46% , Hüls
 71% , Enichem

< 4> 가가 (: , %)

Snadoz	121,655	(3.7)
Ciba-Geigy	115,280	(6.0)
Bayer	109,945	(0.7)
Kemira	109,928	13.6
Schering	94,644	(2.4)
Akzo	92,466	(6.4)
Hüls	82,950	(12.7)
Solvay	81,208	3.4
Roche	79,833	N/A
DSM	79,764	6.3
BASF	74,629	(9.8)
Hoechst	66,469	(4.4)
EMC	64,713	2.4
ICI	60,515	(4.2)
Dyno Industrier	58,225	nc
BOC	49,098	9.4

< 5> 가가 (:%)

	가가	
Ciba-Geigy	70.2	nc
L 'Air Liquide	69.3	(1.5)
Bayer	67.7	3.7
Sandoz	66.0	1.2
Schering	66.0	1.5
Akzo	63.1	0.2
Wacker Chemie	62.9	0.4
Roche	55.4	N/A
Kemira	54.1	6.9
Hüls	47.1	(5.2)
Solvay	44.9	5.5
BOC	39.7	2.6
Hoechst	38.3	(0.1)
Dyno Industrier	35.1	4.2
DSM	32.9	(5.1)
BASF	32.1	(8.1)
ICI	32.1	(3.5)

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< 3> 90 R&D
(:100 , %)

Bayer	1,832	1.6
Hoechst	1,798	2.5
Ciba-Geigy	1,609	(1.2)
BASF	1,384	5.9
ICI	1,310	6.3
Roche	1,133	1.8
Rhône-Poulenc	1,039	25.1
Sandoz	948	9.4
Schering	537	14.3
Akzo	528	(1.4)
Solvay	416	7.4
Shell	349	7.7
Enichem	343	(7.0)
Atochem	266	nc
Hüls	264	21.6
DSM	252	7.6
Elf Aquitaine	225	46.1
Montecatini	199	16.7
L'Air Liquide	144	3.0
Wacker Chemie	135	(0.2)
BOC	117	15.0
UCB	68	17.3
EMC	44	24.4
AGA	38	2.9
Perstorp	37	13.2
Dyno Industrier	20	30.1
Laporte	8	10.5

< 7>
(: , %)

Shell	598,737	0.9
Neste	509,374	11.4
Norsk Hydro	387,806	(9.6)
Atochem	305,545	nc
BP	293,656	(0.3)
Enichem	272,709	5.5
Elf Aquitaine	257,033	63.4
DSM	242,586	12.0
EMC	232,440	(6.5)
BASF	231,683	(0.4)
Laporte	225,063	1.1
Monsanto	218,958	6.4
Montecatini	216,815	(8.0)
Kemira	202,180	6.2
ICI	188,559	(0.8)
Sandoz	184,330	(4.8)
Degussa	183,031	(3.9)
Solvay	180,962	(2.0)
Nobel Industries	180,806	(5.0)
UCB	177,561	(0.6)
Hüls	176,042	(7.9)
Hoechst	173,620	(4.3)
Rhône-Poulenc	169,082	1.3
Dyno Industrier	165,844	(4.0)
Ciba-Geigy	164,211	(6.0)
Bayer	162,943	(4.3)
Perstorp	157,287	1.9
AGA	151,446	12.5
Schering	148,458	(3.8)
Wacker Chemie	146,838	(3.0)
Akzo	146,542	(6.5)
Roche	144,008	(6.1)
BOC	123,670	6.6

Rhône-Poulenc
가가 가 , ()

. Ciba-Geigy가 70% 1 , 5 . Ciba-Geigy

1	BASF		31,195	(2.1)
2	Hoechst		30,017	(2.3)
3	Bayer		27,863	(3.8)
4	ICI		24,909	(2.0)
5	Rhône-Poulenc		15,483	7.9
6	Ciba-Giegy		15,459	(4.4)
7	Elf Aquitaine(*)		14,323	28.1
8	Enichem(1)		13,363	(1.9)
9	R Dutch/Shell(*)	/	12,703	(4.1)
10	Atochem(2)		10,297	43.2
11	Akzo		10,229	(8.0)
12	Sandoz		9,703	(1.0)
13	Solvay		8,265	(0.6)
14	Roche		7,587	(1.5)
15	Hüls(3)		6,829	14.2
16	DSM		6,028	(5.6)
17	BP(*)		5,791	(0.1)
18	L'Air Liquide		5,680	2.3
19	Norsk Hydro(*)		5,165	(1.4)
20	BOC(a)		4,945	9.2
21	Henkel(*)		4,767	1.9
22	Montecatini(4)		4,288	(4.0)
23	Schering		3,963	1.3
24	Degussa(*) (b)		3,706	0.1
25	Petrofina(*)		3,526	3.4
26	Unilever(*)	/	3,339	0.8
27	Courtaulds		3,324	0.4
28	Kemira		3,139	3.2
29	EMC		3,069	(6.0)
30	Nobel(*)		2,903	18.7
31	Rutgerswerke		2,519	4.4
32	Neste(*)		2,398	18.1
33	Merck		2,384	4.1
34	Total(*)		2,294	104.5
35	AGA		2,205	12.5
36	Wacker Chemie(5)		2,168	0.6
37	Repsol(*)		1,509	(1.2)
38	UCB		1,403	0.4
39	Tessenderlo(6)		1,316	6.6
40	Laporte		1,253	5.3
41	Dyno Industrier		1,206	13.8
42	Perstorp(b)		1,160	5.3
43	RWE-DEA(*) (c) (7)		1,080	(2.8)
44	SKW Trostberg(8)		1,021	(15.1)
45	Lonza		951	(24.8)

< 8>

(:%)

	RONA	
Perstorp	42.8	(2.3)
Roche	37.4	nc
Rhône-Poulenc	33.4	9.0
Hoechst	31.4	(24.0)
Solvay	29.5	(9.4)
Bayer	29.3	(24.7)
BOC	28.4	(9.0)
DSM	27.0	(26.6)
Wacker Chemie	26.8	(27.2)
UCB	26.4	(9.7)
Schering	25.5	(1.5)
ICI	25.4	(32.0)
L'Air Liquide	25.3	(4.0)
BASF	24.9	(39.5)
Akzo	24.6	(22.9)
Hüls	21.3	(34.1)
AGA	21.0	15.5
Nobel Industries	21.0	(46.0)
Dyno Industrier	19.4	(44.4)
Kemira	14.7	(5.7)

() RONA:

< 9>

(:%)

	ROE	
Laporte	23.8	(38.1)
DSM	20.1	(44.3)
Nobel Industries	19.9	(30.3)
Perstorp	19.5	7.2
BOC	18.8	6.8
Solvay	17.9	(7.6)
UCB	15.9	(10.3)
Air Liquide	15.1	(2.9)
Akzo	14.3	(32.0)
ICI	14.3	(32.0)
AGA	13.8	32.8
Hoechst	13.3	(21.6)
Sandoz	13.2	(9.7)
Dyno Industrier	12.2	(60.0)
Bayer	11.7	(9.8)
Schering	10.8	9.2
Wacker Chemie	10.4	(31.3)
BASF	7.7	(46.6)
Roche	7.2	(2.3)
Ciba-Geigy	6.7	(30.3)

() ROE: (%)

< 10>

(:100 , %)

BASF	2,983	12.7
Bayer	2,467	7.0
Hoechst	2,274	6.3
ICI	1,955	(6.2)
Enichem	1,627	(2.6)
Ciba-Geigy	1,615	3.6
Rhône-Poulenc	1,481	7.4
Elf Aquitaine(*)	1,361	65.6
Shell(*)	1,251	26.1
Solvay	1,182	18.5
Sandoz	996	18.0
L'Air Liquide	779	31.7
DSM	777	(24.7)
Montecatini	753	23.4
Hüls	745	23.1
BP(*) (a)	729	22.7
Roche	712	(0.1)
Akzo	670	(13.0)
BOC	578	(12.0)
Neste(*)	491	1.8
Norsk Hydro(*)	461	9.9
Schering	345	12.2
Nobel Industries	344	67.5
Kemira	313	(29.3)
AGA	270	(21.3)
Wacker Chemie	254	18.3
Unilever	234	3.4
EMC	231	(42.8)
Dyno Industrier	146	20.6
UCB	85	(20.3)

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3 2
R&D
가 R&D
1 가가 가 , 1
16 가 9 1
가 가
(equity)

Roche가

< 1992/2/1>