

SF₆ Data Collection Exercise

RAND Corporation

SUMMARY REPORT

October 2002

YEAR	SF ₆ Sales by End-Use Applications (metric tons)											TOTAL	Annual Change in Total Sales (from previous yr)	
	Electric Utilities		Original Equip. Manufacturers		Magnesium Industry		Electronics Industry		Adiabatic Prop. Usage		All Other Uses (listed below)			
1961	0	0%	91	100%	0	0%	0	0%	0	0%	0	0%	91	----
1962	14	9%	145	91%	0	0%	0	0%	0	0%	0	0%	159	75%
1963	14	7%	181	89%	0	0%	0	0%	0	0%	9	4%	204	28%
1964	18	7%	204	82%	14	6%	0	0%	0	0%	14	6%	250	23%
1965	32	11%	231	76%	23	8%	0	0%	0	0%	18	6%	304	22%
1966 **	61	16%	233	62%	27	7%	2	1%	5	1%	23	6%	374	23%
1967 **	63	16%	239	61%	32	8%	5	1%	9	2%	27	7%	392	5%
1968 **	63	15%	256	60%	36	8%	5	1%	14	3%	32	7%	428	9%
1969 **	84	17%	269	54%	41	8%	7	1%	14	3%	36	7%	496	16%
1970 **	134	22%	283	47%	44	7%	9	1%	14	2%	44	7%	606	22%
1971 **	391	38%	366	36%	71	7%	10	1%	14	1%	72	7%	1,018	68%
1972 **	355	35%	423	42%	63	6%	11	1%	14	1%	64	6%	1,017	0%
1973 **	469	34%	586	42%	83	6%	11	1%	14	1%	84	6%	1,385	36%
1974 **	449	33%	617	45%	46	3%	12	1%	14	1%	72	5%	1,378	-1%
1975	587	33%	909	52%	120	7%	13	1%	14	1%	111	6%	1,754	27%
1976	810	35%	1,186	51%	195	8%	13	1%	14	1%	126	5%	2,344	34%
1977	812	31%	1,411	54%	214	8%	13	0%	14	1%	151	6%	2,615	12%
1978	729	25%	1,763	60%	256	9%	13	0%	20	1%	134	5%	2,915	11%
1979	797	21%	2,432	64%	312	8%	15	0%	32	1%	188	5%	3,776	30%
1980	837	21%	2,566	64%	321	8%	16	0%	35	1%	216	5%	3,991	6%
1981	1,002	25%	2,450	60%	320	8%	17	0%	54	1%	210	5%	4,053	2%
1982	1,005	23%	2,641	61%	360	8%	18	0%	59	1%	246	6%	4,329	7%
1983	941	23%	2,446	60%	374	9%	17	0%	80	2%	233	6%	4,091	-5%
1984	1,043	21%	3,164	64%	397	8%	16	0%	108	2%	232	5%	4,960	21%
1985	1,152	23%	3,022	60%	437	9%	20	0%	111	2%	254	5%	4,996	1%
1986	1,367	26%	3,016	57%	431	8%	38	1%	110	2%	300	6%	5,262	5%
1987	1,264	24%	3,161	59%	415	8%	73	1%	146	3%	265	5%	5,324	1%
1988	1,393	26%	2,910	55%	398	8%	100	2%	162	3%	307	6%	5,270	-1%
1989	1,507	27%	3,078	54%	363	6%	117	2%	270	5%	323	6%	5,658	7%
1990	1,574	25%	3,471	56%	385	6%	140	2%	220	4%	435	7%	6,225	10%
1991	1,496	22%	3,940	57%	357	5%	151	2%	260	4%	682	10%	6,886	11%
1992	1,295	19%	4,190	61%	266	4%	201	3%	290	4%	645	9%	6,887	0%
1993	1,513	22%	3,857	57%	274	4%	229	3%	290	4%	658	10%	6,821	-1%
1994	1,342	19%	4,355	60%	354	5%	262	4%	325	4%	587	8%	7,225	6%
1995	1,024	14%	4,761	64%	399	5%	300	4%	356	5%	617	8%	7,457	3%
1996	1,163	15%	4,771	63%	544	7%	307	4%	344	5%	442	6%	7,571	2%
1997	1,021	15%	4,347	65%	178	3%	361	5%	393	6%	366	5%	6,665	-12%
1998	741	13%	4,140	70%	148	2%	373	6%	175	3%	351	6%	5,929	-11%
1999	669	13%	3,208	63%	165	3%	474	9%	134	3%	417	8%	5,067	-15%
2000	1,128	18%	3,915	64%	153	3%	604	10%	108	2%	211	3%	6,119	21%
2001	1,132	18%	4,236	66%	211	3%	541	8%	63	1%	252	4%	6,435	5%
TOTAL	31,491	21%	89,470	60%	8,827	6%	4,514	3%	4,299	3%	9,454	6%	148,726	

NOTES: 1) "All Other Uses" includes accelerators, optical fiber production, glazing, biotechnology, lighting, medical, refining, pharmaceutical, laboratory / university research, sound proof windows

2) For the years 1966-1974 (**), some companies could not provide a breakdown by end use. TOTAL SALES includes an additional 672 metric tons sold in these years. The sum of sales by end use does not equal total sales.

3) For the years 1961-1996, utilities and accelerators were reported together in the same category. Beginning with 1997, accelerators were included in the category of "All Other Uses" and "Utilities" was a stand-alone category.

4) In the 2000-2001 report, one company made a correction to the category distribution of their previously reported data. Sales shown previously as "Utilities" were moved to "Original Equipment Manufacturers". A similar change was made by another company in the 1999 report.

5) Data from Nuclear Energy Corp. of South Africa (NECSA) are included in the report beginning in 1997.

6) Ausimont was acquired by Solvay in Spring 2002; combined data were reported by Solvay for the 2000-2001 report.

Reporting Companies

- Air Products and Chemicals, Inc. (USA)
- Asahi Glass Chemicals, Ltd. (Japan)
- Ausimont S.p.A. (Italy), which was acquired by Solvay in Spring 2002.
- Honeywell International, Inc. (formerly AlliedSignal) (USA)
- Kanto Denka Kogyo Co., Ltd. (Japan)
- Nuclear Energy Corporation of South Africa (formerly Atomic Energy Corp.) (South Africa)
- Solvay Fluor und Derivate GmbH (Germany), which acquired Ausimont in Spring 2002
- Solvay Fluorides (US)

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