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PA276 Soap and detergents

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Business Monitor

Report on the Census of Production

Synthetic resins and plastics materials and synthetic rubber

HMSO



A publication of the Government Statistical Service

PA276

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Report on the Census of Production 1976

Synthetic resins and plastics materials and synthetic rubber

Presented by the Secretary of State for Industry
to Parliament in pursuance of the Statistics of Trade Act 1947
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The information in this report relates to establishments classified to the Synthetic resins and plastics materials and synthetic rubber industry, minimum list heading 276 in the Standard Industrial Classification (revised 1968). The activities of the industry include:—

Manufacturing synthetic resins and plastics materials in the form of solid and liquid resins, latices, solutions, dispersions and emulsions, moulding and extrusion compounds, foam, non-decorative sheet, laminated sheet (including decorative), film, rods and tubes and profile shapes. Glass fibre sheet and transparent regenerated cellulose film are included. Unformulated synthetic resin adhesives are included but formulated synthetic resin adhesives (i.e. containing additives such as solvents, plasticisers, etc.) are excluded. The production of textile fibres from plastics materials, plastics mouldings, coatings or extrusions produced from these synthetic resins and plastics materials, articles cut from plastics sheet and plastics floor-coverings and decorative plastics sheet (other than laminated thermosetting sheet) are also excluded.

In interpreting the data in the tables it is essential to bear in mind the notes and definitions which commence on page (iii).

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TABLE 1

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Output and costs, 1973 - 1976
All United Kingdom establishments classified to the industry (a)

	Unit	1973	1974	1975	1976
Enterprises	Number	328	408	472	510
Establishments	"	359	444	516	555
Sales of goods produced	£ thousand	632,600	1,011,506	971,032	1,400,605
Receipts for work done and industrial services rendered	"	(b)	(b)	(b)	4,070
Capital goods produced for establishments' own use	"	4,983	5,729	6,687	7,008
Non-industrial services rendered	"	1,992	2,520	4,412	7,976
Goods merchanted or factored	"	33,974	62,020	62,896	87,046
Total sales and work done (c)	"	673,550	1,081,775	1,045,027	1,506,707
Increase during the year, work in progress and goods on hand for sale	"	-2,174	49,484	-2,396	40,998
Gross output	"	671,376	1,131,259	1,042,631	1,547,705
Purchases of materials for use in production, and packaging and fuel	"	341,782	647,305	596,710	930,703
Purchases of goods for merchenting or factoring	"	28,451	57,912	47,296	72,893
Increase during the year, stocks of materials, stores and fuel	"	10,097	28,608	-10,079	16,893
Cost of industrial services received	"	13,821	18,235	21,677	31,537
Net output	"	297,419	436,415	366,870	529,466
Total employment (d)	Thousands	45.4	50.1	51.1	51.5
Net output per head	£	6,545	8,714	7,175	10,276
Payments for non-industrial services					
Rents, hire of plant and machinery (e)(f)	£ thousand	3,154	3,855	5,834	7,018
Commercial insurance premiums	"	3,936	4,597	5,680	6,413
Bank charges	"	202	351	368	415
Other non-industrial services (g)	"	21,687	33,780	38,902	58,295
Licensing of motor vehicles	"	138	165	204	229
Rates, excluding water rates	"	3,112	4,553	6,528	7,207
Gross value added at factor cost	"	265,189	389,114	309,355	449,889
Gross value added at factor cost per head	£	5,836	7,769	6,050	8,731

(a) Including estimates for establishments not making satisfactory returns, non-response and establishments exempt because of size. Satisfactory returns accounted for 86 per cent of employment within the industry.

(b) Included with Sales of goods produced.

(c) A breakdown of manufacturers' sales of principal products are published regularly in Business Monitor PQ276.

(d) Average number employed, including full and part-time employees (see table 7) and working proprietors.

(e) 1973 figures include hire of vehicles.

(f) For 1973-1975 rents of industrial and commercial buildings were not recorded separately. For 1976 the amount payable was £2,223 thousand.

(g) 1974-1976 figures include the cost of hiring goods vehicles.

TABLE 2

PA276

Capital expenditure, 1973 - 1976
All United Kingdom establishments classified to the industry (a)(b)

	£ thousand			
	1973	1974	1975	1976
Land and buildings				
New building work	2,421	6,093	7,454	5,510
Land and existing buildings				
Acquisitions	774	1,782	2,611	722
Disposals	226	450	881	28
Vehicles				
Acquisitions				
Motor cars	943	1,529)		
Other vehicles	523	861)	2,019	2,821
Disposals				
Motor cars	340	435)		
Other vehicles	49	71)	463	701
Plant and machinery				
Acquisitions	29,738	49,311	62,222	62,970
Disposals	1,318	1,482	836	960
Total net capital expenditure	32,465	57,139	72,126	70,335

(a) Including estimates for establishments not making satisfactory returns, non-response and establishments exempt because of size. Satisfactory returns accounted for 86 per cent of employment within the industry.

(b) Capital expenditure in respect of manufacturing establishments where production had not commenced before the end of the year, is included.

TABLE 3

Stocks and work in progress, 1973 - 1976
All United Kingdom establishments classified to the industry (a)

	£ thousand				
	1973	1974	1975	1976	
	Increase				Value at end of year
Materials, stores and fuel	10,097	28,608	-10,079	16,893	81,979
Work in progress	481	2,873	2,573	4,086	20,126
Goods on hand for sale	-2,655	46,611	-4,969	36,912	129,945
Total	7,923	78,092	-12,475	57,891	232,050

(a) Including estimates for establishments not making satisfactory returns, non-response and establishments exempt because of size. Satisfactory returns accounted for 86 per cent of employment within the industry.

TABLE 4

PA276

Analysis of establishments by size, 1976
All United Kingdom establishments classified to the industry (a)

Size group (b)	Estab-lish-ments	Enter-prises (c)	Employment			Wages and salaries (f)				
			Total (d)	Opera-tives	Others (e)	Operatives		Others (e)		
						Total	per head	Total	per head	
Number	Number	Number	Number	Number	Number	£ thousand	£	£ thousand	£	
1 - 10	287	284	1,427)						
11 - 19	89	87	1,288)	4,680	2,228	13,758	2,940	8,107	3,639
20 - 49	68	66	2,080)						
50 - 99	33	32	2,319)						
100 - 199	28	28	3,919	2,704	1,212	7,843	2,901	4,379	3,613	
200 - 299	14	12	3,307	2,113	1,194	6,982	3,304	4,460	3,735	
300 - 399	12	11	4,353	2,806	1,547	10,627	3,787	6,605	4,270	
400 - 499	5	4	2,225	1,207	1,018	4,224	3,500	3,980	3,910	
500 - 749	6	6	3,764	2,342	1,422	7,954	3,396	6,190	4,353	
750 - 999	3	3	2,535	1,286	1,249	4,522	3,516	5,597	4,481	
1,000 - 1,499	4	3	5,172	3,671	1,501	13,286	3,619	5,970	3,977	
1,500 and over	6	6	19,137	11,994	7,143	46,041	3,839	37,181	5,205	
Total	555	510	51,526	32,803	18,514	115,237	3,513	82,469	4,454	

- (a) Including estimates for establishments not making satisfactory returns, non-response and establishments with fewer than 20 employees.
- (b) Average number employed, including full and part-time employees (see table 7) and working proprietors.
- (c) The sum of the figures for the size groups may exceed the total for the industry because some enterprises control establishments in more than one size group.
- (d) Including working proprietors.
- (e) Administrative, technical and clerical employees.

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Total sales and work done (g)	Gross output	Net output	Gross value added at factor cost		Net capital expenditure (h)	Total stocks and work in progress at end of year	
			Total	per head			
							£ thousand
168,110	170,167	56,642	7,962	(j)	(j)	6,038	24,390
97,438	99,157	32,576	8,312	75,365(j)	6,831(j)	3,230	14,315
115,888	116,767	37,835	11,441	31,229	9,443	2,409	18,563
188,281	192,047	54,621	12,548	47,569	10,928	4,013	23,571
65,392	67,462	23,331	10,486	18,189	8,175	2,270	11,426
133,638	137,299	44,491	11,820	39,299	10,441	7,128	22,751
89,680	95,236	31,929	12,595	26,028	10,267	4,092	19,961
85,238	87,559	38,073	7,361	32,595	6,302	3,159	16,176
563,042	582,011	209,968	10,972	179,615	9,386	37,997	80,897
1,506,707	1,547,705	529,466	10,276	449,889	8,731	70,335	232,050

- (f) The cost of employers' contributions to national insurance, graduated pensions, other pensions and welfare schemes and the running costs of canteens, is estimated for the industry at £33,882 thousand.
- (g) Sales of goods produced, capital goods manufactured, buildings constructed by establishments for their own use, work done, industrial and non-industrial services rendered and merchanted goods.
- (h) New building work plus acquisitions less disposals of land and existing buildings, vehicles and plant and machinery.
- (j) Gross value added data relate to establishments employing 1-199.

TABLE 5

PA276

Regional distribution of employment, net capital expenditure, net output and gross value added at factor cost, 1976
All United Kingdom establishments classified to the industry

Area	Total employment (a)		Net capital expenditure (b)(c)		Net output, gross value added and employment in the region from returns received from establishments with more than 80 per cent of their employment in the region (d)		
	Thousands	per cent of United Kingdom	£ thousand	per cent of United Kingdom	Net output £ thousand	Gross value added at factor cost £ thousand	Employment as a percentage of total regional employment in the industry
Standard regions of England							
North	8.5	16.5	15,660	22.3	39,298	32,160	40.8
Yorkshire and Humberside	1.0	1.9	1,015	1.4	*	*	*
East Midlands	2.0	3.8	1,336	1.9	9,817	7,281	54.1
East Anglia	2.3	4.5	1,552	2.2	*	*	*
South East	10.2	19.8	5,641	8.0	52,104	43,255	44.7
South West	3.8	7.3	2,692	3.8	11,530	9,960	32.5
West Midlands	4.5	8.8	3,135	4.5	16,822	14,293	57.5
North West	11.0	21.4	26,832	38.2	64,617	51,812	49.8
England	43.3	84.1	57,863	82.3	213,281	173,717	47.8
Wales	*	*	*	*	*	*	*
Scotland	3.9	7.6	3,538	5.0	23,687	21,086	48.0
Great Britain	*	*	*	*	*	*	*
Northern Ireland	*	*	*	*	*	*	*
Unallocated (e)	—	—	—	—	258,245	225,341	—
United Kingdom (b)	51.5	100.0	70,335	100.0	529,466	449,889	

- (a) Average number employed, including full and part-time employees (see table 7) and working proprietors.
- (b) Including estimates for establishments not making satisfactory returns, non-response and establishments with fewer than 20 employees.
- (c) New building work plus acquisitions less disposals of land and existing buildings, vehicles and plant and machinery.
- (d) Where a census return covered addresses in two or more regions an estimate was made of the net output and gross value added attributable to the region only where more than 80 per cent of the establishment's employees were located in the region. The estimate was made by assuming that net output and gross value added at each address covered by a return was proportional to employment at the address.
- (e) Unallocated net output and gross value added covering establishments with addresses in two or more regions, plus estimates for unsatisfactory returns, non-response and establishments exempt because of size.

TABLE 6

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Percentage analysis of twelve-month periods covered by returns received from United Kingdom establishments employing 20 or more persons, 1976

Accounting year ended		Percentage of total returns received	Percentage of total number employed
		per cent	per cent
1976	April (a)	0.0	0.0
	May	4.2	1.7
	June	1.7	1.0
	July	2.5	0.4
	August	1.7	0.5
	September	3.4	0.7
	October	3.4	1.9
	November	4.2	2.4
	December	58.8	72.5
1977	January	4.2	4.0
	February	0.8	0.1
	March (b)	15.1	14.8

(a) From 6th April.

(b) Including returns made for twelve-month period ended 1st to 5th April 1977.

TABLE 7

Percentage analysis of employees, by full and part-time employment and sex, 1976(a)

Sex	Full-time	Part-time	All employees
	per cent	per cent	per cent
Male	83	1	84
Female	12	4	16

Source: Department of Employment

(a) The percentages relate to the numbers employed (excluding working proprietors) in the United Kingdom at end June, 1976.

firms produced for their own use in connection with the business covered by the return. The value of plant, etc. acquired is the expenditure charged to capital account during the year of return less any discounts received, but including the cost of transport and installation. Deductible value added tax is excluded but non-deductible value added tax on motor cars acquired is included. No deduction is made for depreciation, amortization or obsolescence. The proceeds of items disposed of during the year exclude amounts written-off for items scrapped.

Cost of Industrial services

This includes amounts payable to other firms for work done on materials supplied by the establishment, payments for repairs and maintenance (including those in respect of rented buildings) and amounts paid to other firms for contracts which have been sublet. Payments to outworkers are excluded.

Cost of non-industrial services

This includes rent of industrial and commercial buildings, hire of plant and machinery, commercial insurance premiums, bank charges and amounts paid for professional services, post office services, transport, advertising etc. Amounts payable on royalties for the right to use patents, trademarks, copyrights etc., manufacturing and quarrying rights and technical "know-how" are also included.

Gross output

In the calculation of gross output the value of total sales and work done is increased by the rise (or reduced by the fall) during the year in the value of work in progress and goods on hand for sale.

Net output

Net output, a customary census measure, is calculated by deducting from gross output the cost of purchases (reduced by the rise, or increased by the fall, during the year of stocks of materials etc.) and the cost of industrial services received, and where applicable, duties etc.

Net output per head

The figures of net output per head are derived by dividing the net output by the average number of persons employed (full and part-time) on all activities covered by the returns, including operatives, administrative, technical and clerical employees and working proprietors, but excluding outworkers.

Gross value added at factor cost

Gross value added at factor cost is calculated by deducting from net output the cost of non-industrial services (e.g. rent of buildings, hire of plant and machinery, commercial insurance premiums, bank charges and amounts paid for professional services, post office services, transport and advertising), rates (excluding water rates) and the cost of licensing motor vehicles. This estimate of gross value added approaches more closely than census net output to the definition of net output or value added in national accounts statistics.

Gross value added at factor cost per head

The figures of gross value added at factor cost per head are derived by dividing the gross value added by the average number of persons employed (full and part-time) on all activities covered by the returns, including operatives, administrative, technical and clerical employees and working proprietors, but excluding outworkers.

Purchases

Purchases include the cost of raw materials,

components, semi-manufactured goods and workshop materials; of replacement parts and consumable tools not charged to capital account; of packaging materials of all types; of stationery and printed matter; of fuel, electricity and water; of materials to be used by the establishment or given out to other establishments for the production of machinery or other capital items for the establishment's own use; of materials for use by the establishment when working on goods supplied by customers; and of food, etc. for any canteen covered by the establishment's return. Transfers of goods to the establishment from another department of the same firm not covered by the establishment's return are included at a cost corresponding to the estimated selling value recorded by the other department. Amounts payable to transport firms or credited to the firm's own transport department for delivery of materials are excluded, as are all purchases of machinery and plant charged to capital account. Purchases of goods for merchanting or factoring have been collected separately since 1973. The values shown exclude VAT. They include, in addition to the actual purchase price, the value of packaging material charged to the establishment. The value of returned goods or packaging material returned to suppliers and any trade discounts are excluded. Materials purchased duty-paid are included at their duty-paid value, less any drawback, rebate, etc. The cost of transport is included only if it is included with the purchase price in the firm's accounts. Imported goods are included at their full delivered cost. If in the firm's accounts the transport from docks or airport is not included in the cost of goods purchased, the cost is entered at c.i.f. plus duty (if applicable). Leasing, renting and hire purchase charges are excluded.

Sales of goods produced

Sales for the purposes of the annual censuses means deliveries on sale of goods made by establishments in the United Kingdom covered by the inquiry. Sales of goods made for these establishments by outworkers or by other establishments from materials given out to them and sales of waste products are included. New building work and machinery or other capital items produced by establishments for hiring out or leasing are regarded as sales, the value included in the return being that adopted in the establishments' capital asset accounts. Forward sales and canteen takings are excluded. All sales in the period of the inquiry are included irrespective of when the goods were manufactured. Goods produced in one establishment and transferred either to ancillary departments not engaged in production for which there are separate accounts, or to another establishment of the same firm not covered by the return, are treated as sales by the producing establishment and valued as far as possible as if they had been sold to an independent purchaser. Goods transferred to wholesale or retail selling organisations, for which separate accounts are kept are valued on the same basis. The value shown for sales is the "net selling value" defined as the amount (excluding value added tax) charged to customers whether on an ex-works or delivered basis, after any trade discounts and agents' commissions have been deducted. The cost of packing materials less allowance for returnable cases is included. In industries where products attract Excise Duty the value stated is usually inclusive of duty if sold duty-paid and exclusive of duty if sold in bond or exported.

Work done and industrial services rendered

Figures for work done represent the amount charged for work carried out on materials supplied by a customer and include repair work. Within certain

industries this heading covers a wide variety of activities, for example, within the food sector - butter packed on commission; within the textile industries - making up of garments, fur dressing and textile finishing; within printing and publishing - preparatory work on type-setting, block making and binding. Work done is also significant in the electrical machinery and heavy engineering industries, covering erection, installation and repair and jobbing work. Other activities within this heading include exploration work, research and development, glass cutting and dressing and planing of timber. Industrial services rendered include repairs and maintenance, installation work, and technical research and studies for other organisations.

Capital goods produced for establishments' own use This includes all work of a capital nature carried out during the year by the establishments' own staff for their own use.

Non-industrial services rendered

This includes rents received for commercial and industrial buildings, amounts charged for hiring out plant, machinery and other goods and amounts charged to other organisations for the provision of transport. It also includes amounts received for the right to use patents, trademarks, copyrights etc., manufacturing and quarrying rights and technical "know-how" and revenue from such staff facilities as canteens.

Goods merchanted or factored

Merchantable goods are those (excluding canteen sales) sold without having been subjected to any manufacturing process by the seller.

Stocks and work in progress

Values are given of stocks of goods on hand for sale and of materials, stores and fuel, at the end of the year of return and of the change during the year, including any stocks of goods held for merchanting or factoring. Work in progress is defined as materials which have been partially processed by the establishment but which are not usually sold or transferred to another establishment without further processing. The values include the cost of materials consumed and labour used, together with a margin of overhead costs and profits. Progress payments made to sub-contractors are excluded and progress payments received from other organisations are not deducted.

Wages and salaries

These are amounts paid during the year to operatives and to administrative, technical and clerical employees. Payments to working proprietors, whether called salaries or not, are excluded. The values shown include all overtime payments, bonuses and commissions, whether paid regularly or not, and no deduction is made for income tax, insurances, contributory pensions etc. The value of redundancy payments less any amounts reimbursed from Government sources is included. The value of any payments in kind, travelling expenses etc. is excluded.

Remuneration paid to outworkers

The remuneration paid to outworkers (i.e. persons employed by the establishment who do their work in their own homes) is generally on a piece-work basis. Only amounts paid to outworkers whose names appear on the establishment's payroll are included. Amounts paid to outworkers by sub-contractors are excluded.

Employers' insurance and welfare contributions

This item includes employers' contributions to national insurance and graduated pensions (and/or earnings related basic contributions under the

Social Security Act, 1973) as well as commercial insurance premiums to provide pensions, super-annuation or other retirement benefits, sickness benefits, personal accident benefits, disability or death benefits for employees or former employees or their dependants. Contributions to the running costs of canteens, social centres, children's and holiday homes, etc. for employees, former employees and their dependants are also included.

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