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98 Production of man-made fibres

This Report on the Production of Man-made Fibres Industry relates to establishments engaged wholly or mainly in manufacturing staple fibre and continuous filament yarn by extrusion. The preparation of continuous filament yarn for weaving or knitting (doubling, twisting, winding, etc) is included when carried out at the same establishment.

This industry corresponds to minimum list heading 411 in the Standard Industrial Classification (Revised 1968) which has been used for the first time as a basis of classification in the 1968 census. The definition of this industry however is unchanged from the last detailed Census of Production for 1963 in which it was reported (Part 75).

Returns in full detail were received from all firms in this industry, there being no firms with less than twenty-five persons employed in 1963 or in 1968; all the tables in this report, therefore, relate to the industry as a whole.

In interpreting the data in the tables it is essential to bear in mind the notes and definitions which appear on pages (i) to (iv).

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(c) Direct sales of goods (excluding canteen takings) made to, and work done for, the general public are included. These amounted to £36,000 in 1968. Similar information is not available for 1963.

(d) This is the ratio of total sales of principal products by the industry to total sales of goods produced and work done.

(e) Administrative, technical and clerical employees.

(f) Excluding expenditure for establishments not yet in production.

TABLE 1 Industry summary, 1963 and 1968 United Kingdom (a)

(1) (2)
(b) (c)
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(a) Returns in full detail were received from all establishments in this industry, there being no establishments with less than twenty-five persons employed in 1963 or in 1968.
(b) Including services rendered to other organisations (amounts charged for hiring out plant, machinery or other goods, for providing transport, or for technical or other services rendered).

Footnotes continued on page 98/2.

	ad - calas	Service Charles and Pro-	Une de la constance de la const
		All estab	lishments
1	Unit	1963	1968
	No.	7	5
	н	26	26
	£'000	209,854	339,007
	п	108,767	163,044
	£	2,918	4,043
	£'000	201,758	313,795
	п	7,097	21,041
	Per cent.	86	83
	£'000	89,430	146,099
	н	7,810	20,146
	п	2,362	9,510
	п) [3,221
		> 1,670 {	17 (A) ()
	H	J	166
	n	+ 1,184	+ 7,348
		30,203	45,151
	н	+ 927	+ 2,280
	11	12,833	21,211
	11	+ 72	+ 1,891
	н	3,194	6,252
	н	+ ,185	+ 3,178
	u	14,175	17,687
	No.	37,274	40,331
	"	28,327	30,767
		8,942	9,564
	£'000	23,070	36,549
	п	9,505	14,885
	£	. 814	1,188
	н	1,063	1,556
	£'000	11,730	24,358
	п	*	3,591
	"	-	42
	н	*	61
	1 "	10,709	21,040
	"	252	399
	п	115	185
	n n	25	42
		and and a state of the state of	and the second

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PRODUCTION OF MAN-MADE FIBRES 98/4

TABLE 2	Analysis by	size of	establishment	within	the	industry,	1968

All establishments: United Kingdom

Owing to the risk of disclosure of information relating to individual enterprises, this table cannot be shown.

sex, 1969 (a)		

All establishments: United Kingdom

Ages	Males	Females	All employees
	Per cent.	Per cent.	Per cent.
Under 18	1	1	2
18 and over	84	14	98
All ages	85	15	100

Source: Department of Employment

(a) The percentages relate to the numbers employed (excluding working proprietors) at June 1969, the earliest date for which the information is available on the basis of the Standard Industrial Classification (Revised 1968).

TABLE 4 Analysis of larger establishments, 1963 and 1968 Establishments employing 25 or more persons: United Kingdom

> This table is not shown separately since in this industry it is equivalent to Table 1.

TABLE 5 Sales of principal products of the industry by larger establishments, including sales by establishments classified to other industries, 1963 and 1968 (a) (b)

Establishments employing 25 or more persons: Analysis of returns received, United Kingdom

	19	63	1968				
Solar Antes Second Sources Second	Quantity	Value	Quantity	Value	Enter- prises	Entries	
Man-made fibres	Th.lb.	£,000	Th.lb.	£'000	Number	Number	
Single continuous filament yarn (c)				Wi Louid			
Viscose	126,736	24,564	55,269	13,379	*	6	
Acetate and triacetate	38,750	10,847	81,217	28,225	*	6	
Other non-synthetic	112	97	149	171	*	*	
Synthetic	134,316	74,760	277,415	119,159	*	12	
Staple fibre						and and the	
Viscose and other non-synthetic fibres not separately specified	285,924	27,073	349,332	32,421	*	*	
Acetate and triacetate	18,392	3,051	29,462	5,594	*	*	
Synthetic	85,931	31,813	263,810	61,241	*	5	
Other products		168		268	*	*	
Waste products		1,657	n pandra 1	820	*	15	
Work done		200		91	*	*	
Total		174,230		261,369			
Sales in other industries (see Table 6) (b)		-		-		, Piffi	
Principal products of this industry sold by establish- ments in the industry	de colora da	174,230		261,369	5	26	

(a) This analysis is equivalent to an all-establishments analysis (see introduction at the beginning of the report). (b) No sales of principal products of the industry were recorded by establishments classified to

other industries for 1963 or for 1968.

(c) The total amount of high tenacity yarn for industrial purposes returned in 1968 was 55,358,000 lb. value £18,513,000 and in 1963 87,421,000 lb. value £20,868,000.

TABLE 6 Sales of principal products of the industry by establishments classified to other industries, 1963 and 1968

Establishments employing 25 or more persons: United Kingdom

No sales of principal products of the industry were recorded by establishments classified to other industries for 1968 or for 1963.

PRODUCTION OF MAN-MADE FIBRES 98/6

Sales of other than principal products by larger establishments in the TABLE 7 industry, 1963 and 1968 (a)

Establishments employing 25 or more persons: Analysis of returns received, United Kingdom

	19	63	19	68
	Quantity	Value	Quantity	Value
Man-made fibres	Th.lb.	£'000	Th.lb.	£'000
Doubled yarn and single yarn bulked, textured, or given an additional twist (including doubled or twisted thread advanced beyond the stage of single yarn)	46,566	16,685	119,764	31,481
Other goods including sales of electricity and steam and services rendered to other organisations (b)		10,843		20,945
Total value of goods sold without being subjected to any manufacturing process (merchanted or factored)		6,270		20,143
Canteen takings		827		899
Total		34,625	2.5.565.9	73,467
			1	

(a) This analysis is equivalent to an all-establishments analysis (see introduction at the beginning of the report).

(b) Services rendered include amounts charged for hiring out plant or machinery or other goods, for providing transport, or for technical or other services rendered to other organisations.

TABLE 8 Production of certain principal products of the industry by larger establishments, 1963 and 1968

This table is not applicable to this industry.

TABLE 9 Purchases by larger establishments of selected principal products of the industry, 1968

This table is not applicable to this industry.

The main purchasing industries of man-made fibre (rayon, nylon, etc) continuous filament yarn are listed in Table 9 of the report on the Spinning and Doubling on the Cotton and Flax Systems Industry (Part 99) together with the details of the quantity and value purchased by each industry.

TABLE 10 Purchases by larger establishments in the industry, 1963 and 1968 (a)

Establishments employing 25 or more persons: Analysis of returns received, United Kingdom

continuous filament yarnSynthetic (nylon, etc) yarnOther (rayon, etc) yarnWoven piece goods (other than narrow fabrics) wholly or mainly of cotton (including cloth for filtering and wrapping)Lubricating oils and greasesLubricating oils and greasesWaterWaterThues, cones, etc (except those of paper, etc purchased for packaging)Tubes, cones, etc (except those of paper, etc purchased for packaging)Tyres and other spare parts for firms' own road goods vehiclesOtherOtherContinuous filament yarnContinuous filament yarnSynthetic (nylon, etc) yarnSynthetic (nylon, etc) yarnContinuous filament yarnContrained out of the parts for firms' own road goods vehiclesSynthetic (nylon, etc) yarnConterCo		19	63	1968	
Normalize for use in production12,27015,399Cotton linters (raw, not blenched)(b)580General chemicals (c)(b)580InorganicSulphric acid and oleum1,763(d)2,684Carbon disulphide3,8623,862Other inorganic chemicals (including inorganic gases)23,4299,757Other organic chemicals (including organic gases)23,4299,757Other organic chemicals (including organic gases)23,4299,757Other organic chemicals (including gums)34024,514Other organic chemicals (including gums)34058Dyestuffs7871,660Starches and sizing materials (including gums)34058Granules, noulding and extrusion compounds of polyethylene and coopylyropylene and coopylyrop		Quantity	Cost	Quantity	Cost
Noon jumpIntersIntersCotton linters (raw, not bleached)(b)Cotton linters (raw, not bleached)(b)General chemicals (c)Inorganic1,763(d)InorganicSulphuric acid and oleum1,763(d)2,684Carbon disulphide3,8623,862Other iorganic chemicals (including organic gases, actic and/rdife, ethyl and other alcobals, and coal tar products)23,4299,757Other organic chemicals (including organic gases, actic and/rdife, ethyl and other alcobals, and coal tar products)23,4299,757Other organic chemicals (including gums)24,51424,514Other organic and organic gases, actic and/rdife, ethyl and other alcobals, and coal tar products)34024,514Other organic and organic gases, building and extrusion compounds of polytholen and polypropyleme and coopolymers7871,660Man-made fibres (nylon, rayon, etc) continuos filament yarn402,851Muter1,774133Nynetic (nylon, etc) yarn wholly or anihy of cotton (including cloth for filtering and wrapping)1,741132Lubricating oils and greases4.81.525Water65	laterials for use in production		£'000		£,000
General chemicals (c)InorganicSulphuric acid and oleumCarbon disulphideSodium hydroxide (caustic soda)Other iorganic chemicals (including inorganic gases)OrganicCellulose acetate and cellulose triacetateOther organic chemicals (including organic gases, acetic and/rode, ethyl and other alcohols, and coal tar products)Other organic chemicals (including organic gases, acetic and/rode, ethyl and other alcohols, and coal tar products)Other organic chemicals (including organic gases, acetic and/rode, ethyl and other alcohols, and coal tar products)Other organic chemicals (including gums)Other organic and organic chemicals)DyestuffsSynthetic (nylon, etc) yarnOther (rayon, etc) yarnMan-made fibres (nylon, rayon, etc) continuos filament yarnOther (rayon, etc) yarnMuterLubricating oils and greasesTh.eq., ydsTh.eq., dasTh.eq., das <td>Wood pulp</td> <td></td> <td>12,270</td> <td></td> <td>15,399</td>	Wood pulp		12,270		15,399
Inorganic1,763(d)2,684Sulphuric acid and oleum1,763(d)2,684Carbon disulphide3,2723,862Other inorganic chemicals (including inorganic gases)23,4293,300Organic23,4299,757Chlorose acetate and cellulose triacetate24,514Other (eg nixtures of inorganic and organic chemicals)24,514Dyestuffs7871,680Starches and sizing materials (including gums)34058Granules, moulding and extrusion compounds of polyethylene and polypropylene and coplymers3,6061,292Man-made fibres (nylon, rayon, etc) continuous filament yarn6061,292Mune scillament yarn1,474472Waven piece goods (other than marrow fabrics) wholly or aninly of cotton (including cloth for filtering and wrapping)1,6731,071133Lubricating oils and greases(b)488351.522Water(b)48835742These, cones, etc (except those of paper, etc purchased for packaging)3,700465Tubes, cones, etc (except those of paper, etc purchased for packaging)3,700465These and other series of paper, etc purchased for packaging) <t< td=""><td>Cotton linters (raw, not bleached)</td><td></td><td>(b)</td><td>long Lonold</td><td>580</td></t<>	Cotton linters (raw, not bleached)		(b)	long Lonold	580
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0ther 4,317]	3 700		86
All other materials for use in production 34,330 49,965	0ther		0,100		4,317
	All other materials for use in production		34,330		49,963

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PRODUCTION OF MAN-MADE FIBRES 98/8

TABLE 10 (continued)

	1 1	.963	1968		
	Quantity	Cost	Quantity	Cost	
Packaging materials		£'000	100	£'000	
Paper and board	1		Same P	more	
Boxes, cartons, drums and canisters (with or without metal ends) of paper and cardboard]	1,433		2,930	
Fibreboard packing cases		1,400		108	
Bags and multiwall paper sacks	1	l r		29	
Plastics (other than transparent regenerated cellulose film)	<u>}</u>	(e) {		100	
Jute and hessian piece-goods, sacks and bags		306	on short	461	
All other packaging materials		2,055	glani 6' kela	1,110	
Tuel and electricity (f)		tister of phi	Rei nan min		
Coal	Th.tons 711	3,438	Th.tons 580	2,694	
Coke (including screenings) and manufactured	Shapen a bicardo	0,100	000	2,004	
fuel	43.5	165	86.3	713	
Derv fuel and motor spirit for use in road	Th.gal.		Th.gal.	100	
vehicles	321	60	587	153	
Other liquid fuels (including creosote/pitch mixtures, etc and liquefied petroleum gases)	36,088	1,299 {	48,734 	1,828 996	
alarra a	Th.therms	ord) 10 kin	Th.therms		
Gas	5,280	283	6,270	338	
Dist.	Th.kWh		Th.kWh		
Electricity	299,441	1,319 1,191 ^(g)	1,123,141	5,340 700	
All other fuels		(e)		1,257	
Total cost of materials and fuel		89,430		146,099	
oods purchased for merchanting		7,118	and it area		
anteen purchases		691	- inplan ist 72	19,393 752	
Total cost of purchases		97,239	n anogery	166,244	

(a) This analysis is equivalent to an all-establishments analysis (see introduction at the beginning of the report).

(b) Included with 'All other materials for processing'.

(c) Described as 'Heavy chemicals' in 1963.

(d) Did not specifically include 'Oleum' for 1963.

(e) Not recorded separately for 1963.

(f) The total quantity of electricity generated in firms' own establishments in this industry was 466,539 Th.kWh in 1968 and 402,875 Th.kWh in 1963.

(g) Revised figures.

TABLE 11 Transport costs and employment of larger establishments, 1963 and 1968 (a) Establishments employing 25 or Analysis of returns received,

Average number mainly employed on transport

Transpor	t cost	ts
----------	--------	----

Wages and salaries

Payments to other organisations for transport

Derv fuel and motor spirit

Tyres and other spare parts for road goods vehicles

by road
by rail and othe
means excluding
[postal services

Costs of operating road goods vehicles

Insurance

Vehicle licences

Depreciation

Payments to other organisations for repairs and maintenance

Total

(a) This analysis is equivalent to an all-establishments analysis (see introduction at the beginning of the report). (b) Excluding tyres and other spare parts for road goods vehicles, not collected separately for 1963.

TABLE 12 establishments, 1963 and 1968 (a) (b)

> Establishments employing 25 or more persons: Analysis of returns received, United Kingdom

Repairs and maintenance to

Buildings

Road goods vehicles

Plant, machinery and other capital equipme Insurance, licensing and depreciation of roa vehicles (c)

Rates, excluding water rates

Hire of plant and machinery

Postage, telephone, telegrams, cables and te

Total

(a) No deduction is made for these payments to arrive at the figures of net output given in this report.

(b) This analysis is equivalent to an all-establishments analysis (see introduction at the beginning of the report).

(c) For details see Table 11.

(d) Excluding Telex for 1963.

more	persons:
United	Kingdom

Unit	1963	1968	
No.	224	304	
£'000	179	357	
H	60	153	
		00	
"		86	
n	1 [3,221	
	1,670		
n		166	
n	9	9	
п	10	38	
н	284	105	
n	6	24	
n	2,218(b)	4,160	
	No . £'000 " " " " " " "	No. 224 £'000 179 " 60 " " 1,670 " 9 " 10 " 284 " 6	

Payments for certain services, etc by larger

		Service of the servic	
	Amounts payable		
	1963	1968	
	£'000	£'000	
	373	501	
	6	24	
ent	1,015	2,325	
ad goods			
.0	303	152	
	989	1,563	
	132	420	
elex (d)	238	245	
	3,057	5,229	

TABLE 13Percentage analysis of twelve-month
periods covered by returns from larger
establishments, 1968 (a)

Establish	hmer	nts emplo	oying 25	or	more	persons:
Analysis	of	returns	received	1, 1	United	Kingdom

.

Year ended	Percentage of total returns received	Percentage of total number employed	
1968	Per cent.	Per cent.	
April (b)	0.0	0.0	
Мау	0.0	0.0	
June	0.0	0.0	
July	0.0	0.0	
August	0.0	0.0	
September	0.0	0.0	
October	3.8	0.5	
November	0.0	0.0	
December	34.6	53.7	
1969	In the second		
January	0.0	0.0	
February	0.0	0.0	
March	57.7	42.3	
April (c)	3.8	3.5	
	100	100	

(a) This analysis is equivalent to an all-establishments analysis (see introduction at the beginning of the report).

(b) From 6 April.

(c) To 5 April.