

## 111 Asbestos

This Report on the Asbestos Industry relates to establishments engaged wholly or mainly in carding, spinning, weaving, felting and moulding asbestos fibre and in the manufacture from asbestos of engine and boiler packing, brake and clutch linings, etc. The manufacture of asbestos cement goods is excluded.

This industry corresponds to minimum list heading 429(1) 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 88).

There were no larger establishments in this industry in Northern Ireland in 1963 and 1968.

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).

## LIST OF TABLES

Table No.	Title	Page
SECTION I - Estimates for all establishments in the industry		
1	Industry summary, 1963 and 1968	111/3
2	Analysis by size of establishment within the industry, 1968	111/4
3	Percentage analysis of employees, by age and sex, 1969	111/5
SECTION II - Analysis of returns received		
4	Analysis of larger establishments, 1963 and 1968	111/6
5	Sales of principal products of the industry by larger establishments, including sales by establishments classified to other industries, 1963 and 1968	111/7
6	Sales of principal products of the industry by larger establishments classified to other industries, 1963 and 1968	111/7
7	Sales of other than principal products by larger establishments in the industry, 1963 and 1968	111/8
8	Production of certain principal products of the industry by larger establishments, 1963 and 1968	DOES NOT APPLY
9	Purchases by larger establishments of selected principal products of the industry, 1968	DOES NOT APPLY
10	Purchases by larger establishments in the industry, 1963 and 1968	111/9
11	Transport costs and employment of larger establishments, 1963 and 1968	111/11
12	Payments for certain services, etc by larger establishments, 1963 and 1968	111/11
13	Percentage analysis of twelve-month periods covered by returns from larger establishments, 1968	111/12

Footnotes continued from page 111/3.

(c) 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).

(d) Administrative, technical and clerical employees.

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

(f) Acquisitions less disposals.TABLE 1 Industry summary, 1963 and 1968  
United Kingdom (a) (b)

	Unit	All establishments		
		1963	1968	
Number of enterprises	No.	69	52	
Number of establishments	"	87	74	
Gross output	£'000	57,302	79,897	
Net output	"	29,297	40,053	
Net output per head	£	1,422	1,932	
Sales and work done	{ goods produced and work done (c) merchanted goods and canteen takings	£'000	43,855	58,187
		"	13,099	20,675
Purchases	{ materials for use in production and packaging and fuel goods for merchandising and canteen purchases	"	17,680	24,145
		"	9,070	15,094
Payments to other organisations	{ for work done on materials given out for transport by road by rail and other means excluding postal services	"	133	153
		"	562	567
		"		170
Stocks and work in progress				
Total stocks and work in progress	{ change during year at end of year	"	- 213	+ 1,320
		"	13,951	19,450
Goods on hand for sale	{ change during year at end of year	"	+ 272	+ 474
		"	6,592	9,633
Work in progress	{ change during year at end of year	"	+ 77	+ 562
		"	2,140	2,981
Materials, stores and fuel	{ change during year at end of year	"	- 561	+ 284
		"	5,219	6,836
Number employed on average during the year	{ total, including working proprietors operatives other employees (d)	Th.	20.6	20.7
		"	13.8	13.6
		"	6.7	7.1
Wages and salaries	{ of operatives of other employees (d)	£'000	9,526	13,154
		"	6,002	7,899
Capital expenditure (e)				
Total	"	1,853	3,709	
New building work	"	426	898	
Land and existing buildings (f)	"	- 18	130	
Plant and machinery (f)	"	1,250	2,416	
Vehicles (f)	"	195	265	

(a) For 1968, estimates for establishments not making satisfactory returns and for small establishments, from which only employment data were collected, accounted for 2 per cent. of the total figures in which they were incorporated: for 1963 the comparable figure was 3 per cent. For both 1968 and 1963, unsatisfactory returns accounted for negligible amounts only.

(b) The following information relates to small establishments (employing fewer than 25 persons) in this industry. It includes an estimate for small establishments not making satisfactory returns.

	1963	1968
Number of establishments	46	35
Average number employed		
Working proprietors	68	28
Other persons employed	509	370

Footnotes continued on page 111/2

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

## (i) Output and employment

All establishments: United Kingdom

Number employed on average during the year by the establishment (a)	Estab-lish-ments	Enter-prises (b)	Total number employed on average during the year (a)	Gross output	Net output	Net output per head
	Number	Number	Number	£'000	£'000	£
1-5	6	6	20	..	..	..
6-10	11	11	77	..	..	..
11-24	15	13	276	..	..	..
25-49	7	7	247	1,106	389	1,574
50-99	4	3	302	1,341	609	2,016
100-199	9	6	1,408	5,189	2,547	1,809
300-399	3	3	1,096	3,909	2,090	1,907
400-499	4	3	1,812	8,815	3,325	1,835
500-1,499	7	5	5,059	20,909	10,897	2,154
1,500 and over	5	4	10,404	37,093	19,427	1,867
Unsatisfactory returns	3	3	25	..	..	..
Total	74	52	20,726	79,897(c)	40,053(c)	1,932(c)

## (ii) Employees, wages and salaries

All establishments: United Kingdom

Number employed on average during the year by the establishment (a)	Employees		Wages and salaries		Wages and salaries per head	
	Oper-atives	Others (d)	Oper-atives	Others (d)	Oper-atives	Others (d)
	Number	Number	£'000	£'000	£	£
1-5	..	..	..	..	..	..
6-10	..	..	..	..	..	..
11-24	..	..	..	..	..	..
25-49	196	47	140	59	715	1,264
50-99	204	98	196	107	961	1,097
100-199	961	447	978	473	1,018	1,059
300-399	712	384	568	398	798	1,037
400-499	1,118	694	880	674	787	971
500-1,499	3,512	1,547	3,287	1,717	936	1,110
1,500 and over	6,638	3,766	6,870	4,329	1,035	1,150
Unsatisfactory returns	..	..	..	..	..	..
Total	13,584(c)	7,110(c)	13,154(c)	7,899(c)	968(c)	1,111(c)

(a) Including working proprietors.

(b) The sum of the figures for the size groups exceeds the total for the industry to the extent that enterprises made returns for establishments in more than one size group.

(c) Including estimates for establishments employing fewer than 25 persons and for establishments not making satisfactory returns.

(d) Administrative, technical and clerical employees.

TABLE 3 Percentage analysis of employees, by age and sex, 1969 (a)

All establishments: United Kingdom

Ages	Males	Females	All employees
	Per cent.	Per cent.	Per cent.
Under 18	2	2	4
18 and over	71	25	96
All ages	73	27	100

Source: Department of Employment

(a) The percentages relate to the numbers employed (excluding working proprietors) in the textile industries not elsewhere specified - minimum list heading 429 - at June 1969, the earliest date for which the information is available on the basis of the Standard Industrial Classification (Revised 1968).

## Footnotes to Table 4.

(a) 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).

(b) Direct sales of goods (excluding canteen takings) made to and work done for, the general public by larger establishments are included. These amounted to £20,000 in 1968. Similar information is not available for 1963.

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

(d) Administrative, technical and clerical employees.

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

TABLE 4 Analysis of larger establishments, 1963 and 1968

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

	Unit	1963	1968	
Number of enterprises	No.	23	20	
Number of establishments	"	40	39	
Gross output	£'000	55,617	78,363	
Net output	"	28,435	39,284	
Net output per head	£	1,422	1,932	
Sales and work done	{ goods produced and work done (a) (b)	£'000	42,565	57,069
	{ merchanted goods and canteen takings	"	12,713	20,278
Index of specialisation (c)	Per cent.	85	85	
Purchases	{ materials for use in production and packaging, and fuel	£'000	17,160	23,681
	{ goods for merchenting and canteen purchases	"	8,803	14,804
Payments to other organisations	{ for work done on materials given out	"	129	150
	{ for transport by road	"	545	556
	{ by rail and other means excluding postal services	"		
Stocks and work in progress				
Goods on hand for sale	{ change during year	"	+ 264	+ 464
	{ at end of year	"	6,398	9,448
Work in progress	{ change during year	"	+ 74	+ 551
	{ at end of year	"	2,077	2,923
Materials, stores and fuel	{ change during year	"	- 545	+ 279
	{ at end of year	"	5,066	6,705
Number employed on average during the year	{ total, including working proprietors	No.	19,997	20,328
	{ operatives	"	13,478	13,341
	{ other employees (d)	"	6,516	6,983
Wages and salaries	{ of operatives	£'000	9,276	12,919
	{ of other employees (d)	"	5,845	7,758
Wages and salaries per head	{ operatives	£	688	968
	{ other employees (d)	"	897	1,111
Capital expenditure (e)				
New building work	£'000	413	880	
Land and existing buildings	{ acquisitions	"	102	241
	{ disposals	"	120	113
Plant and machinery	{ acquisitions	"	1,261	2,472
	{ disposals	"	47	102
Vehicles	{ acquisitions	"	308	383
	{ disposals	"	119	124

For notes to this table - see page 111/5

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

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

	1963		1968		Enter-prises	Entries
	Quantity	Value	Quantity	Value		
Asbestos manufactures	Tons	£'000	Tons	£'000	Number	Number
Carded and processed fibre	3,541	320	1,155	162	*	5
Yarn	5,484	2,712	5,938	3,214	*	5
Woven cloth	2,571	1,701	3,044	2,297	5	6
Webbing, listing, braiding and tape	634	596	698	705	5	7
Compressed fibre sheets for joints	6,100	2,527	..	4,140	5	5
Grey fabric for processing into brake and clutch linings	{ 10,947	{ 12,218				
Brake and clutch linings	{ ..	{ 9,158	{ 24,509	{ 29,153	17	23
	{ ..	{ ..	{ ..	{ 3,238		
Mattresses	{ 37.0	{ 32	..	29	*	*
	{ ..	{ 48				
Insulating materials						
Rope lagging	1,222	365	989	321	*	*
Pipe and slab	17,556	2,550	17,696	2,912	*	*
Boards and panels	..	3,748 (a)	..	5,464	9	9
Other						
Proofed goods and packings	{ 2,373	{ 2,047	2,317	2,527	9	10
	{ ..	{ 346				
Other asbestos manufactures including millboard and paper but excluding asbestos cement goods	..	4,120 (a)	..	3,234	10	14
Paste and composition for coverings	{ 4,982	{ 154	..	384	*	*
	{ ..	{ 104				
Other products	..	182	..	1,404	6	11
Waste products	..	50	..	34	7	12
Work done		426		572	*	*
Total		43,403		60,655	..	..
Sales in other industries (see Table 6)		7,126		11,871	..	..
Principal products of this industry sold by establishments in the industry		36,277		48,783	20	32 (b)

(a) Revised figure.

(b) This figure represents the total number of returns made for larger establishments in this industry which is less than the total number of establishments shown in Table 4 on account of combined returns covering more than one establishment.

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

Establishments employing 25 or more persons: United Kingdom

Sales of principal products by larger establishments classified to other industries amounted to £11,871,000 in 1968 and £7,126,000 in 1963. Owing to the risk of disclosure of information relating to individual firms, separate particulars cannot be given.

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

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

	1963	1968
	Value	Value
	£'000	£'000
Machinery belting of all kinds	2,495	2,479
Gaskets and jointings, including metallic packings	1,475	2,090
Engine and boiler packings (excluding asbestos packing)	2,106	1,606
Other goods		1,885
Services rendered to other organisations (a)	213	226
Total value of goods sold without having been subjected to any manufacturing process (merchanted or factored)	12,474	19,984
Canteen takings	239	294
<b>Total</b>	<b>19,002</b>	<b>28,563</b>

(a) Amounts charged for hiring out plant, 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.

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

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

	1963		1968	
	Quantity	Cost	Quantity	Cost
<b>Materials for use in production</b>	<b>Th. tons</b>	<b>£'000</b>	<b>Th. tons</b>	<b>£'000</b>
Asbestos				
Raw and fibre				
Chrysotile	27.1	2,637	33.0	3,500
Other sorts	20.6	1,290	17.6	1,371
Yarn (including carded fibre)	..	994	..	1,377
Cloth and fabric				
For brake and clutch linings	..	748	..	885
Other	..	366	..	214
Other materials of asbestos	..	1,226	..	1,494
Raw cotton	..	263	..	260
	<b>Th. lb.</b>		<b>Th. lb.</b>	
Cotton yarn (including cotton waste yarn)	2,975	448	2,335	454
			..	74
Man-made fibre (nylon, rayon, etc) spun yarn (including waste yarn) and spun yarn doubled with continuous filament yarn				
Synthetic (nylon, etc) yarn	1,056	414	1,257	400
Other (rayon, etc) yarn	750	73	..	84
Rubber	<b>Th. tons</b>		<b>Th. tons</b>	
Natural, including reclaimed, compounded and latex	..	574	1.2	207
Synthetic, including latex			1.8	625
Manufactures wholly or mainly of rubber (including sheeting)			..	267
Copper (including cadmium copper) in all forms except finished parts, wire and scrap (a)	0.1	42	..	169
General chemicals				
Inorganic (including inorganic gases)	..	(b)	..	533
Organic (including organic gases)			..	690
Other (eg mixtures of inorganic and organic chemicals)			..	889
Synthetic resins and plastics materials (excluding leathercloth and reinforced plastics)				
Polyvinyl chloride polymers and copolymers including the net resin content of latices, solutions and dispersions, plasticised moulding and extrusion compounds	..	(b)	26.0	241
Polytetrafluoroethylene			..	331
	<b>Th. gal.</b>		<b>Th. gal.</b>	
	73.7	16	86.5	24
	<b>Th. cwt.</b>		<b>Th. cwt.</b>	
Lubricating oils and greases	{ 1.4	7	1.6	8
	{ ..	5	..	18

Continued on next page

TABLE 10 (continued)

	1963		1968	
	Quantity	Cost	Quantity	Cost
Materials for use in production (continued)		£'000		£'000
Replacement parts for firms' own machinery, plant and vehicles, and accessories and consumable tools bought as replacement				
Tyres and other spare parts for firms' own road goods vehicles	..	848	..	28
Other	..		..	1,348
All other materials for use in production	..	5,032	..	5,420
Packaging materials				
Paper and board				
Boxes, cartons, drums and canisters (with or without metal ends) of paper and cardboard	..	397	..	358
Fibreboard packing cases	..		..	41
All other packaging materials	..	139	..	289
Fuel and electricity (c)	Th. tons		Th. tons	
Coal	53.0	282	..	178
Coke (including screenings) and manufactured fuel	2.0	17	..	
Derv fuel and motor spirit for use in road vehicles	Th. gal.		Th. gal.	
	786	173	905	252
Other liquid fuels (including creosote/pitch mixtures, etc, and liquefied petroleum gases)	11,513	415	10,057	421
			..	65
Gas	Th. therms		Th. therms	
	2,278	161	2,736	190
Electricity	Th. kWh		Th. kWh	
	104,788	595	114,375	740
			..	141
All other fuels	..	(d)	..	95
Total cost of materials and fuel		17,160		23,681
Goods purchased for merchandising		8,597		14,465
Canteen purchases		206		339
Total cost of purchases		25,963		38,485

(a) 'Blister' was specifically excluded for 1963.

(b) Included with 'All other materials for use in production'.

(c) The total quantity of electricity generated in establishments employing 25 or more persons in this industry was 4,411 Th.kWh in 1968, and 3,645 Th.kWh in 1963.

(d) Not recorded separately for 1963.

TABLE 11 Transport costs and employment of larger establishments, 1963 and 1968

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

	Unit	1963	1968
Average number mainly employed on transport	No.	221	365
Transport costs			
Wages and salaries	£'000	202	339
Derv fuel and motor spirit	"	173	252
Tyres and other spare parts for road goods vehicles	"	..	28
Payments to other organisations for transport	{ by road by rail and other means excluding postal services	545	556
Costs of operating road goods vehicles			
Insurance	"	10	14
Vehicle licences	"	11	28
Depreciation	"	57	93
Payments to other organisations for repairs and maintenance	"	28	51
Total	"	1,026 (a)	1,527

(a) Excluding tyres and other spare parts for road goods vehicles, not collected separately for 1963.

TABLE 12 Payments for certain services, etc by larger establishments, 1963 and 1968 (a)

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

	Amounts payable	
	1963	1968
Repairs and maintenance to	£'000	£'000
Buildings	105	116
Road goods vehicles	28	51
Plant, machinery and other capital equipment	178	308
Insurance, licensing and depreciation of road goods vehicles (b)	77	134
Rates, excluding water rates	348	502
Hire of plant and machinery	37	65
Postage, telephone, telegrams, cables and telex (c)	301	421
Total	1,074	1,596

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

(b) For details see Table 11.

(c) Excluding Telex for 1963.

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

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

Year ended	Percentage of total returns received	Percentage of total number employed
1968	Per cent.	Per cent.
April (a)	0.0	0.0
May	0.0	0.0
June	0.0	0.0
July	6.3	2.7
August	0.0	0.0
September	34.4	40.9
October	3.1	0.2
November	0.0	0.0
December	53.1	45.8
1969		
January	0.0	0.0
February	0.0	0.0
March	3.1	10.3
April (b)	0.0	0.0
	100	100

(a) From 6 April.

(b) To 5 April.