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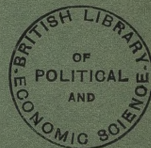
BOARD OF TRADE

FINAL REPORT
on the
CENSUS OF PRODUCTION
FOR 1948

Volume 1

Trade K

Abrasives



*Presented by the Board of Trade to Parliament
in pursuance of the Statistics of Trade Act, 1947
(10 & 11 Geo. 6, Ch. 39, Sec. 7).*

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In interpreting the data in the following tables, it is essential to bear in mind not only the qualifications mentioned in this report but also the general explanations and qualifications contained in the separate booklet published in this series by H.M. Stationery Office entitled "Final Reports of the Census of Production for 1948: Introductory Notes", price 2s 0d. NET

List of Tables

Table No.	Title	Page.
1	Summary: Larger establishments	1/K/2
2	Summary, 1948: Small firms in Great Britain	1/K/3
3	Estimated average employment, 1948: All firms in Great Britain	1/K/3
4	Analysis by size, 1948: Larger establishments in Great Britain	1/K/3
5	Analysis by standard region, 1948: Larger establishments in Great Britain	1/K/4
6	Analysis according to specialisation within the trade, 1948: Larger establishments in Great Britain	1/K/4
7	Total make of intermediate products: Larger establishments	1/K/5
8	Sales (or production) of the principal products of the trade, including sales (or production) of these products by establishments classified to other trades: Larger establishments	1/K/5
9	Sales (or production) of principal products of the trade by establishments classified to other trades: Larger establishments	1/K/6
10	Sales (or production) in the trade of other than principal products: Larger establishments	1/K/7
11	Analysis of sales, 1948: Larger establishments in Great Britain	1/K/7
12	Production, exports and imports of certain principal products: Larger establishments	1/K/8
13	Purchased materials and fuel: Larger establishments	1/K/9
14	Stocks of finished products and work in progress and stocks of materials and fuel, 1948: Larger establishments in Great Britain	1/K/10
15	Employment and remuneration: Larger establishments	1/K/11
16	Wages and salaries paid, 1948: Larger establishments in Great Britain	1/K/12
17	Payments for work done on materials given out, 1948: Larger establishments in Great Britain	1/K/12
18	Payments for certain services, 1948: Larger establishments in Great Britain	1/K/12
19	Plant, machinery and vehicles acquired and disposed of, 1948: Larger establishments in Great Britain	1/K/13
20	Capital expenditure on building work and changes in occupation of buildings and land, 1948: Larger establishments in Great Britain	1/K/13

Country Tables

Table No.	Title	Page
21	Summary: Larger establishments	1/K/14
22	Summary: Small firms	1/K/14
23 or 23(1)	Sales in the trade: Larger establishments	1/K/15
23(11)	Sales in the trade: Small firms	*
24 or 24(1)	Purchased materials and fuel: Larger establishments	1/K/16
24(11)	Purchased materials and fuel: Small firms	*
25 or 25(1)	Employment and remuneration: Larger establishments	1/K/17
25(11)	Employment: Small firms	*
26	Monthly index of employment of operatives: Larger establishments	1/K/18

* Not applicable to this trade

ABRASIVES TRADE

THIS REPORT on the Abrasives Trade relates to establishments engaged wholly or mainly in manufacturing artificial abrasives whether in the form of powder, paste, stone or coated paper and cloth, and in shaping natural abrasives into grindstones, etc.

This trade corresponds to minimum list heading 29 (1) in the Standard Industrial Classification.

Any establishments in Northern Ireland are excluded in 1948; no production was recorded there in this trade for 1937 or 1935.

ABRASIVES TRADE

Summary

Larger establishments

TABLE 1

	1948	1937	1935
	£'000	£'000	£'000
Gross output (production)	10,259	3,202	2,572
Cost of materials and fuel used	4,787	1,466	1,154
Payment for work done on materials given out	8	1	-
Net output	5,464	1,735	1,418
Wages and salaries of persons employed	2,424	..	..
Average number of persons employed (a) (b)	No. 6,604	No. 3,781	No. 3,132
Net output per person employed (b)	£ 827	£ 461	£ 453
Stocks at end of year	£'000	£'000	£'000
Finished products and work in progress	1,028	..	..
Materials and fuel	1,419	..	..
Number of establishments	No. 37	No. ..	No. 30

(a) For an estimate of the total number of persons employed in this trade see Table 3.

(b) Excluding outworkers.

The value of gross output and of materials and fuel used are derived in the following way:-

	1948	1937	1935
	£'000	£'000	£'000
Output of firms in this trade			
Total value of sales (1948) or production (1937 and 1935)			
Principal products (see Table 8)	9,791	3,062	2,479
Other output (see Table 10)	367	140	93
Adjustment for changes in stocks and work in progress (see Table 14)	+212	..	..
	10,370	3,202	2,572
Less payment for transport by other firms	111		
Gross output (production)	10,259	3,202	2,572
Materials and fuel used by firms in this trade			
Purchases (see Table 13)	4,810		
Adjustment for changes in stocks (see Table 14)	23	1,466	1,154
Materials and fuel used	4,787	1,466	1,154

Summary, 1948

Small firms in Great Britain

TABLE 2

Number of returns	22
Average number of persons employed (a)	
Males	120
Females	12
Total	132

(a) Including working proprietors.

Estimated average employment, 1948

All firms in Great Britain

TABLE 3

As returned by firms	
Employing on average more than ten persons (a)	6,604
Employing on average ten persons or less (b)	132
	6,736
Estimated average employment in firms not making satisfactory returns	37
Estimated average employment in all firms	6,773

(a) See Tables 1 and 15.

(b) See Table 2.

Analysis by size, 1948

Larger establishments in Great Britain

TABLE 4

Average number employed	Establishments	Gross output	Net output	Persons employed	Remuneration			Net output per person employed
					Wages	Salaries	Total	
11-24	No. 5	£'000 366	£'000 143	No. 81	£'000 23	£'000 11	£'000 34	£ 1,762
25-49	13	968	532	463	126	85	211	1,149
50-99	6	518	249	407	89	39	128	613
100-199	7	1,287	695	966	223	123	345	717
200-499	3	1,962	978	1,013	252	159	411	966
500 and over	3	5,159	2,869	3,674	862	432	1,294	781
Total	37	10,259	5,464	6,604	1,575	848	2,424	827

Analysis by standard region, 1948

Larger establishments in Great Britain

TABLE 5

Region	Establishments	Gross output	Net output		Persons employed	Remuneration		
			Value	Percentage of total		Wages	Salaries	Total
	No.	£'000	£'000		No.	£'000	£'000	£'000
England and Wales								
East and West Ridings of Yorkshire; North Midland; and Eastern	8	1,337	747	13.7	711	172	153	325
London and South Eastern	8	1,630	708	13.0	752	204	103	307
Midland	5	3,357	1,871	34.2	2,190	505	281	786
North Western	8	3,356	1,853	33.9	2,581	612	282	894
Northern; South Western; and Wales	4	426	207	3.8	268	58	42	101
Total England and Wales	33	10,106	5,286	98.6	6,502	1,551	841	2,392
Scotland	4	153	78	1.4	102	24	8	32
Great Britain	37	10,259	5,464	100.0	6,604	1,575	849	2,424

Analysis according to specialisation within the trade, 1948

Larger establishments in Great Britain

TABLE 6

	Establishments	Gross output	Sales of characteristic products	Net output	Persons employed	Remuneration			Net output per person employed
						Wages	Salaries	Total	
	No.	£'000	£'000	£'000	No.	£'000	£'000	£'000	£
Specialist producers of									
Abrasive wheels, discs, segments, sharpening stones and other shapes or forms	18	5,847	4,801	3,417	4,663	1,107	614	1,721	733
Abrasive paper, cloth and other flexible abrasive materials and articles made therefrom	11	3,711	3,411	1,729	1,743	415	213	628	99.2
Remainder of trade	8	701		318	198	54	21	75	1,606
Total	37	10,259		5,464	6,604	1,575	848	2,424	827

DS 95919/1

TABLE 7 - Total make of intermediate products: Larger establishments

No particulars of total make of abrasives were recorded

Sales (or production) of the principal products of the trade, including sales (or production) of these products by establishments classified to other trades

Larger establishments

TABLE 8

	1948 Sales			1937 Production		1935 Production			
	Quantity	Value	Entries	Quantity	Value	Quantity	Value		
	Tons	£'000	No.	Tons	£'000	Tons	£'000		
Abrasive wheels, discs, segments, sharpening stones and other shapes or forms									
Cut from natural rock (a)	1,398	48	8	..	-	..	-		
Made of abrasive grains bonded with other materials	..	11							
Aluminium oxide (artificial)	8,719	1,572	13	6,881	1,145(b)	5,486	863(b)		
	..	1,803							
Silicon carbide	2,193	524	13	1,313	275(b)	1,081	211(b)		
	..	448							
Emery	172	35	7	604	92(b)	264	37(b)		
	..	20							
Other	..	30	6						
Unclassified	604	161	5	-	-	-	-		
	..	32							
Diamond impregnated grinding wheels, cutting discs, peripheral wheels and the like (a)	..	294	6	..	-	..	-		
Oil stones, rubbing blocks and sharpening stones	..	(c)	..	529	102	..	80		
	Th. reams (d)			Th. reams (d)	Th. cwt.	Th. reams (d)	Th. cwt.		
Abrasive paper, cloth and other flexible abrasive materials and articles made wholly or mainly therefrom									
Aluminium oxide (artificial)	98	1,400	13	38	14.3	221	31	11.5	179
Emery	129	654	12	126	46.9	317	120	47.8	291
Glass, flint and sand	275	527	14	251	79.9	190	236	76.3	175
Silicon carbide	128	871	12	60	23.8	229	58	22.5	216
Garnet	66	328	10	41	16.1	118	56	20.1	130
Other	..	5	..							..	34
Unclassified	..	52	..	-	-	-	-	-	-
Total abrasive paper, etc.	696	3,480	..	516	181.0	1,075	501	178.2	991
	..	56		..	..	34	

DS 95919/1

TABLE 8 (contd.)

	1948 Sales			1937 Production		1935 Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
	Th. cwts.	£'000	No.	Th. cwts.	£'000		£'000
Metallic abrasives	501	490	8	208	97(a)		
Other abrasives, ground, pulverised, refined, or otherwise prepared							
Natural						..	299
Emery	82	156(a)	6	243	132	..	
Other	..	249	9				
Artificial	..	629	5	71	136		
Waste products	..	2	9	..	(c)	..	(c)
Work done for the trade or on commission		-	-		3(e)		1(e)
Total		10,038	..		3,091		2,482
Less sales (or production) in other trades (see Table 9)		247	..		29		3
Total principal products of this trade sold or made by establishments in the trade		9,791	37		3,062		2,479

- (a) So far as recorded separately.
 (b) Described as "Grinding wheels".
 (c) Not recorded separately.
 (d) Reams of 480 sheets.
 (e) Amount received.

Sales (or production) of principal products of the trade by establishments classified to other trades
 Larger establishments

TABLE 9

	1948 Sales			1937 Production		1935 Production	
	Quantity	Value	Entries	Quantity	Value	Quantity	Value
	Tons	£'000	No.		£'000	Tons	£'000
Abrasive wheels, discs, segments, sharpening stones and other shapes or forms							
Made of abrasive grains bonded with other materials							
Emery	51	11	..	-	-	10	2
Other	..	2	..				
Unclassified	..	32	..				
Abrasive paper, cloth and other flexible abrasive materials and articles made wholly or mainly therefrom	Th. reams						
Glass, flint and sand	1	2	..	-	-	-	-
Other	..	4	..				
Unclassified	..	52	..				
Diamond impregnated grinding wheels, cutting discs, peripheral wheels and the like, and metallic abrasives	..	107	..				
Other abrasives, ground, pulverised, refined or otherwise prepared				Th. cwts.			
Natural, including wheels, discs, segments, etc. cut from natural rock	..	37	..	34	28		1
Artificial	-	-	-	-	1		
Total		247	..		29		3

Sales (or production) in the trade of other than principal products
 Larger establishments

TABLE 10

	1948 Sales	1937 Production	1935 Production
	Value	Value	Value
	£'000	£'000	£'000
Refractory goods	367	60	53
Other goods		80	40
Work done	-		
Total	367	140	93

Analysis of sales, 1948

Larger establishments in Great Britain

TABLE 11

	Sales	Percentage of total sales
	£'000	
Sales (or transfers) to other organisations under the same control	201	2.0
Sales to independent buyers		
Exports invoiced directly overseas	1,159	11.4
Exports invoiced to Crown Agents and purchasing houses in this country of individual firms and governments abroad	357	3.5
His Majesty's Government and Local Authorities (other than productive establishments)	85	0.8
Manufacturers, repairers, builders, mines, public utilities, and transport and other productive undertakings	5,550	54.6
Wholesalers, merchants and other agents for resale	2,402(a)	23.6
Retailers, including multiple shops, caterers and N. A. A. F. I., for resale	232	2.3
Other businesses (including farmers) and institutions of all kinds	10	0.1
Members of the public, including employees	-	-
Unclassified	164	1.6
Total sales to independent buyers	9,958	98.0
Total	10,158	100.0

(a) Of this total £2,033,000 was recorded as divided between £348,000 for export and £1,684,000 for other sales.

Production, exports and imports
of certain principal products (a)

TABLE 12

		Production (b) (c)	Exports (d)	Retained imports (e)
		£'000	£'000	£'000
Abrasive wheels, discs, segments, sharpening stones and other shapes or forms				
Made of abrasive grains bonded with other materials (f)				
Aluminium oxide (artificial)	{ 1948	3,375	199	4
	{ 1937	1,145	42	30
Silicon carbide	{ 1948	972	183	1
	{ 1937	275	88	18
Emery	1948	55	63	-
Other (including diamond impregnated grinding wheels, cutting discs, etc.)	1948	324	185	13
Total emery and other	{ 1948	379	246	13
	{ 1937	92	82	38
Total abrasive wheels, etc., made of abrasive grains bonded with other materials	{ 1948	4,919 (g)	628	18
	{ 1937	1,614 (h)	242 (i)	68 (1)
Abrasive paper, cloth and other flexible abrasive materials and articles made wholly or mainly therefrom				
Emery	{ 1948	654	439	2
	{ 1937	317	115	3
Glass, flint and sand	{ 1948	527	179	28
	{ 1937	190	130	23
Aluminium oxide (artificial)	1948	1,100	54	22
Silicon carbide	1948	671	98	
Garnet	1948	328	72	
Other	1948	5	157	
Total aluminium oxide, silicon carbide, garnet and other	{ 1948	2,304	381	22
	{ 1937	602	29	23
Total abrasive paper, etc.	{ 1948	3,536 (g)	999	52
	{ 1937	1,109	274	49
Other abrasives, ground, pulverised, refined or otherwise prepared (except abrasive wheels, etc., cut from natural rock and metallic abrasives)	{ 1948	1,034	204 (k)	652 (k)
	{ 1937	268	107	279

(a) Figures of sales (or production) refer only to larger establishments in the relevant years. All recorded exports from and imports into the United Kingdom are given in the table. The figures, therefore, are not strictly comparable.

(b) Sales in 1948, production for sale in 1937.

(c) Including sales (or production) by establishments classified to other trades.

(d) Valued f.o.b.

(e) Valued c.i.f.

(f) The figures for 1937 relate to grinding wheels only.

(g) Including unclassified sales.

(h) Including oil stones, rubbing blocks and sharpening stones.

(i) Including "whetstones", amounting to £30,000 for exports and £2,000 for retained imports.

(k) Including some crude unground abrasives.

DS 95919/1

Purchased materials and fuel

Larger establishments

TABLE 13

	1948		1937		1935	
	Materials and fuel purchased		Usage of purchased materials and fuel			
	Quantity	Cost	Quantity	Cost	Quantity	Cost
	Tons	£'000	Tons	£'000	Tons	£'000
Materials						
Abrasives, crude, ground or graded						
Natural						
Emery	6,903	89	8,422	43	7,750	41
Garnet						
Crude, unground	250	9	..	(a)	..	(a)
Ground or graded	888	46				
Corundum (natural)	109	6				
Flint	262	3				
	..	1				
Other natural abrasives	..	189				
Artificial						
Aluminium oxide	22,412	882	12,742	406	8,354	295
Silicon carbide	4,709	362	3,038	157	2,516	136
Other artificial abrasives	..	59	6,867	28 (b)	7,186	27 (b)
Paper of all kinds (excluding packing materials)	2,830	461	1,132	56	745	35
			..	50	..	51
	Th. lbs.		Th. sq. yds.			
Cotton piece goods	1,172	289	3,586	94	..	145
	..	169	..	80		
Packing materials	..	158	..	39		
	Tons					
Scrap metal	33,520	178	..	433	..	371 (c)
Glue	1,917	387				
All other purchased materials	..	1,242				
Fuel and electricity	Th. tons		Th. tons		Th. tons	
Coal	30.2	32	28.7	35	25.0	27
Coke	8.1	34	..	(a)	4.7	7
	Th. B. T. U. (kW. hrs.)		Th. B. T. U. (kW. hrs.)		Th. B. T. U. (kW. hrs.)	
Electricity purchased (d)	14,443	59	5,143	16	3,980	13
Electricity obtained from other works under the same ownership	..	-				
	Th. galls.				Th. galls	
Motor spirit (petrol) and deriv. fuel						
Used for road vehicles	49	5	..	(a)	..	(a)
Used for other power purposes	..	1				
Other oil fuel (including creosote/pitch mixtures)	1,462	55	..	(a)	399	6 (e)

DS 95919/1

TABLE 13 (contd.)

	1948		1937		1935	
	Materials and fuel purchased		Usage of purchased materials and fuel			
	Quantity	Cost	Quantity	Cost	Quantity	Cost
	Th. therms	£'000	Th. B. T. U. (kW. hrs.)	£'000	Th. B. T. U. (kW. hrs.)	£'000
Fuel and electricity (contd.)						
Gas purchased						
From public supply	462	18				
From other sources	..	24				
Gas obtained from other works under the same ownership	1	-	..	29	..	(a)
All other purchased fuel	..	1				
Total		4,810		1,466		1,154

(a) Not recorded separately.

(b) Including natural abrasives other than emery.

(c) Including fuel not specified separately.

(d) The total quantity of electricity consumed in 1948 was 19,657,000 B.T. units.

(e) Described as "Heavy fuel oil".

Stocks of finished products and work in progress and stocks of materials and fuel, 1948

Larger establishments in Great Britain

TABLE 14

	At beginning of year		At end of year	
	Quantity	Value	Quantity	Value
		£'000		£'000
Finished products				
Abrasive wheels, discs, segments, sharpening stones and other shapes or forms made of aluminium oxide (artificial)	..	167	..	211
	Th. reams (a)		Th. reams (a)	
Abrasive paper, cloth and other flexible abrasive materials and articles made wholly or mainly therefrom	103	201	136	285
Other finished products	..	118	..	171
Work in progress		329		361
Total finished products and work in progress		816		1,028
Materials and fuel	Tons		Tons	
Aluminium oxide (artificial)	3,228	184	2,223	126
Other descriptions	..	275	..	319
	..	937	..	974
Total materials and fuel		1,396		1,419

(a) Reams of 480 sheets.

Employment and remuneration (a): Larger establishments

TABLE 15

	Average number of operatives			Administrative, technical and clerical employees (b)			Total		
	1948	1937	1935	1948	1937	1935	1948	1937	1935
Males									
Under 18	74	150	148	41	55	85	115	205	233
All ages	4,005	2,530	2,148	1,065	584	481	5,070	3,114	2,629
Females									
Under 18	33	54	33	98	87	46	131	141	79
All ages	820	329	245	714	318	258	1,534	647	503
Total									
Under 18	107	204	181	139	142	131	246	346	312
All ages	4,825	2,859	2,393	1,779 (c)	902	739	6,604 (c) (d)	3,761 (e) (f)	3,132
	£'000			£'000			£'000		
Total remuneration	1,575	..	..	848	..	..	2,424	..	..

(a) Excluded employees. The following numbers were employed at establishments in this trade but are not included in the table or in any other report (e.g., employees in a separate selling or transport organisation for which separate accounts are kept):-

Canteen workers 11 males 74 females
Other workers 6 males 18 females

(b) Number at September 25, 1948, October 16, 1937, and October 12, 1935.

(c) No working proprietors were recorded for 1948.

(d) The employers' share of contributions to all National Insurance Schemes payable during the year in respect of these workers amounted to £52,000.

(e) The following persons (included in this total) were employed on special work by establishments employing 100 or more persons:-

	Operatives	Administrative, technical and clerical employees
Transport of goods outside the premises	9	
Maintenance and repair of firms' buildings, but not plant	36	
Research work not directly connected with current production however charged	-	-

In addition to the employees in the above table the firms in this trade employed a small number of female outworkers in 1948.

Wages and salaries paid, 1948 (a)

Larger establishments in Great Britain

TABLE 16

	Amount paid by all establishments	Establishments making returns for the calendar year					
		Amount paid	Percentage of annual remuneration paid in				Year
			First quarter	Second quarter	Third quarter	Fourth quarter	
Wages and salaries of	£'000	£'000					
Operatives	1,575	959	23.8	25.0	24.9	26.3	100.0
Administrative, technical and clerical employees	848	507	24.5	24.5	25.2	25.8	100.0
Total	2,424	1,466	24.0	24.8	25.0	26.1	100.0

(a) Including bonus and commission payments.

TABLE 17 - Payments for work done on materials given out, 1948

Larger establishments in Great Britain

The total amount paid for work done on materials given out was £8,000.

Payments for certain services, 1948

Larger establishments in Great Britain

TABLE 18

	Amount paid
Repair and maintenance	£'000
Of buildings	27
Of plant, machinery and vehicles	43
Unclassified	53
Hire of plant, machinery and vehicles	7
Advertising and market research	
Advertising in newspapers, magazines and periodicals	8
Other advertising services (poster display, despatch of circulars, etc.) and market research	6
Unclassified	14
Payments made for research work	
To research associations	2
To universities, institutions, academic bodies and similar agencies	-
To other commercial concerns	20
Postage, telephone, telegrams and cables	31
Commercial insurance premiums	24
Rates (excluding water rates) payable in the year	13

DS 95919/1

Plant, machinery and vehicles acquired and disposed of, 1948

Larger establishments in Great Britain

TABLE 19

	Acquisitions		Disposals
	New	Second-hand	
	£'000	£'000	£'000
Plant and machinery	195	9	2
Vehicles	36	3	7
Total	231	12	9

Capital expenditure on building work and changes in occupation of buildings and land, 1948

Larger establishments in Great Britain

TABLE 20

	£'000	£'000
1. Capital expenditure on building work (a)		40
2. Existing buildings and land (b)		
(1) Capital cost of freeholds bought	-	
Estimated capital value of		
(11) Rented property newly occupied in the year (c)	12	
(111) Leasehold buildings and land newly occupied in the year	37	
Total of heading 2		49
Total of headings 1 and 2		89
3. Existing buildings and land relinquished (d)		-
4. Headings 1 and 2 less heading 3		89

- (a) Excluding site value, which, where appropriate, is included in heading 2(1).
 (b) The figures do not reflect changes in ownership of previously occupied land and buildings.
 (c) Property which is occupied under an agreement for the payment of rent without the purchase of a lease or the payment of a premium.
 (d) Including property destroyed or abandoned.

DS 95919/1

ABRASIVES

1948

Summary

Larger establishments

TABLE 21

	England and Wales (a)	Scotland	Great Britain
Gross output (production)	£'000 10,106	£'000 153	£'000 10,259
Cost of materials and fuel used	4,712	75	4,787
Payment for work done on materials given out	8	-	8
Net output	5,386	78	5,464
Wages and salaries of persons employed	£ 2,392	£ 32	£ 2,424
Average number of persons employed (b)	No. 6,502	No. 102	No. 6,604
Net output per person employed (b)	£ 828	£ 766	£ 827
Stocks at end of year	£'000	£'000	£'000
Finished products and work in progress	1,012	16	1,028
Materials and fuel	£ 1,401	£ 18	£ 1,419
Number of establishments	No. 33	No. 4	No. 37

(a) Owing to the risk of disclosure of information relating to individual firms separate particulars for Wales cannot be given.

(b) Excluding outworkers.

The values of gross output and of materials and fuel used are derived in the following way:-

	England and Wales	Scotland	Great Britain
Output of firms in this trade	£'000	£'000	£'000
Total value of sales (see Table 23)	9,990	169	10,158
Adjustment for changes in stocks and work in progress	+ 213	- 1	+ 212
Less payment for transport by other firms	10,203	167	10,370
Gross output (production)	97	14	111
Materials and fuel used by firms in this trade	10,106	153	10,259
Purchases (see Table 24)	4,721	89	4,810
Adjustment for changes in stocks	- 9	- 14	- 23
Materials and fuel used	4,712	75	4,787

TABLE 22 - Summary: Small firms

See Table 2. Owing to the risk of disclosure of information relating to individual firms separate particulars for England, Wales and Scotland cannot be given.

Sales in the trade

Larger establishments

TABLE 23

Principal products	England and Wales		Scotland		Great Britain	
	Quantity	Value	Quantity	Value	Quantity	Value
	Tons	£'000		£'000	Tons	£'000
Abrasive wheels, discs, segments, sharpening stones and other shapes or forms						
Made of abrasive grains bonded with other materials						
Aluminium oxide (artificial)	8,719	1,572	-	-	8,719	1,572
Silicon carbide	2,193	524	-	-	2,193	524
Emery	121	24	-	-	121	24
Other	..	20	-	-	..	20
Unclassified	604	161	-	-	604	161
	Th. reams (a)				Th. reams (a)	
Abrasive paper, cloth and other flexible abrasive materials and articles made wholly or mainly therefrom						
Aluminium oxide (artificial)	98	1,100	-	-	98	1,100
Emery	129	654	-	-	129	654
Glass, flint and sand	274	524	-	-	274	524
Silicon carbide	128	871	-	-	128	871
Garnet	66	328	-	-	66	328
Other	..	-	-	-	..	-
Diamond impregnated grinding wheels, cutting discs, peripheral wheels and the like, and metallic abrasives	..	(b)	..	(b)	..	677 (c)
	Th. cwts.				Th. cwts.	
Other abrasives, ground, pulverised, refined or otherwise prepared						
Natural						
Emery	82	156 (c)	-	-	82	156 (c)
Other, including wheels, discs, segments, sharpening stones and other shapes or forms cut from natural rock	..	(b)	..	(b)	..	271
Artificial	..	629	-	-	..	629
Waste products	..	2	..	-	..	2
Total principal products		9,623		169		9,791
Other output	..	367	-	-	..	367
Total		9,990		169		10,158

(a) Reams of 480 sheets.

(b) Owing to the risk of disclosure of information relating to individual firms separate particulars cannot be given.

(c) So far as recorded separately.

Purchased materials and fuel
Larger establishments

TABLE 24

	England and Wales		Scotland		Great Britain	
	Quantity	Cost	Quantity	Cost	Quantity	Cost
	Tons	£'000		£'000	Tons	£'000
Materials						
Abrasives, crude, ground or graded						
Natural						
Emery	6,903	89	-	-	6,903	89
Garnet						
Crude, unground	250	9	-	-	250	9
Ground or graded	888	48	-	-	888	48
Corundum (natural)	109	6	-	-	109	6
Flint	262	3	-	-	262	3
..	..	1	-	-	..	1
Other natural abrasives	..	(a)	..	(a)	..	189
Artificial						
Aluminium oxide	22,412	882	-	-	22,412	882
Silicon carbide	4,709	362	-	-	4,709	362
Other artificial abrasives	..	59	-	-	..	59
Paper of all kinds (excluding packing materials)	2,830	461	-	-	2,830	461
	Th. lbs.				Th. lbs.	
Cotton piece goods	1,172	289	-	-	1,172	289
..	..	169	-	-	..	169
Packing materials	..	148	..	9	..	158
	Tons		Tons		Tons	
Scrap metal	21,547	117	11,973	61	33,520	178
Glue	1,917	387	-	-	1,917	387
All other purchased materials	..	(a)	..	(a)	..	1,242
Fuel and electricity	Th. tons		Th. tons		Th. tons	
Coal	30.1	81	0.1	-	30.2	82
Coke	6.7	29	1.4	6	8.1	34
	Th. B. T. U. (kW. hrs.)		Th. B. T. U. (kW. hrs.)		Th. B. T. U. (kW. hrs.)	
Electricity purchased (b)	14,271	58	172	1	14,443	59
Electricity obtained from other works under the same ownership	..	-	-	-	..	-

TABLE 24 (contd.)

	England and Wales		Scotland		Great Britain	
	Quantity	Cost	Quantity	Cost	Quantity	Cost
	Th. galls.	£'000	Th. galls.	£'000	Th. galls.	£'000
Fuel and electricity (contd.)						
Motor spirit (petrol) and derv. fuel						
Used for road vehicles	47	5	2	-	49	5
Used for other power purposes	..	1	-	-	..	1
Other oil fuel (including creosote/pitch mixtures)	1,462	55	-	-	1,462	55
Gas purchased	Th. therms		Th. therms		Th. therms	
From public supply	451	18	11	-	462	18
From other sources	..	24	-	-	..	24
Gas obtained from other works under the same ownership	1	-	-	-	1	-
All other purchased fuel	..	1	..	-	..	1
Total		4,721		89		4,810

(a) Owing to the risk of disclosure of information relating to individual firms separate particulars cannot be given.

(b) The total quantity of electricity consumed in Great Britain was 19,657,000 B.T. units. Owing to the risk of disclosure of information relating to individual firms separate particulars for England and Wales and for Scotland cannot be given.

Employment and remuneration
Larger establishments

TABLE 25

	England and Wales			Scotland			Great Britain		
	Average number of operatives	Administrative, technical and clerical employees	Total	Average number of operatives	Administrative, technical and clerical employees	Total	Average number of operatives	Administrative, technical and clerical employees	Total
		(a)			(a)			(a)	
Males									
Under 18	72	41	113	2	-	2	74	41	115
All ages	3,945	1,055	5,000	60	10	70	4,005	1,065	5,070
Females									
Under 18	29	97	126	4	1	5	33	98	131
All ages	793	709	1,502	27	5	32	820	714	1,534
Total									
Under 18	101	138	239	6	1	7	107	139	246
All ages	4,738	1,764 (b)	6,502 (b) (c)	87	15 (b)	102 (b) (c)	4,825	1,779 (b)	6,604 (b) (c)
Total remuneration	£'000	£'000	£'000	£'000	£'000	£'000	£'000	£'000	£'000
	1,551	841	2,392	24	8	32	1,575	848	2,424

(a) Number at September 25, 1948.

(b) No working proprietors were recorded.

(c) The employers' share of contributions to all National Insurance Schemes payable during the year in respect of these workers amounted to a total of £52,000; £51,000 for England and Wales, and £1,000 for Scotland.

In addition to the employees in the above table the firms in this trade in England and Wales employed a small number of female outworkers. No outworkers were recorded for Scotland.

Monthly index of employment of operatives: Larger establishments
(average employment in 1948 = 100)

TABLE 26

Month	Monthly index (a)	Month	Monthly index (a)
	Great Britain (b)		Great Britain (b)
1948		1948	
January	98.0	August	99.5
February	99.9	September	99.1
March	100.0	October	100.2
April	100.6	November	101.3
May	100.0	December	101.5
June	100.1	Percentage employment in this trade covered by the index	62.1
July	99.7		

(a) The index numbers are calculated from the number of operatives employed for one week in each month returned by larger establishments that made returns for the calendar year 1948.

(b) Owing to the risk of disclosure of information relating to individual firms separate particulars for England and Wales and Scotland cannot be given.

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