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BOARD OF TRADE



# THE REPORT ON THE CENSUS OF PRODUCTION FOR 1958

Part 108  
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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## NOTES

These notes give only the main information which is needed for interpreting the census figures. Fuller explanations are given in a separate booklet of Introductory Notes (Part 1 of the Report on the Census of Production for 1958).

### CHANGES IN THE 1958 CENSUS

Some changes were introduced in the 1958 census, which affect the comparability between 1954 and 1958 figures.

Returns in full detail were required only from firms employing 25 or more persons, instead of, as previously, from firms employing 11 or more persons.

The coverage of firms' returns for 1958 was in many cases rather wider than for 1954. In both years the census was based on the establishment, comprising in most cases the whole of the premises under the same ownership or management at a particular address (e.g. a factory or mine); but offices, warehouses, laboratories, etc. at addresses separate from the works were treated as part of the establishment. For 1958, but not for 1954, firms were asked to include also, in all sections of their returns, particulars relating to merchanting or factoring, canteens operated by them, and other ancillary activities, such as bottling, packing, and the manufacture of containers for packing their own products, whether or not these activities were carried on at the same address as the works, unless

they were conducted by a separate company, or by a separate department with a separate set of accounts; building and engineering maintenance departments were treated similarly. Selling and transport departments were treated in this way both for 1954 and 1958. While the effect of including these further ancillary activities was generally to produce higher figures for employment etc., the reporting of separate figures for merchant goods led to the exclusion of some firms who proved to be merchants with only minor productive activities.

Changes made for 1958 in the instructions governing the making of returns for two or more establishments operated by the same firm permitted combined returns to be made more freely than in previous censuses. Combined returns were accepted covering establishments in the same census industry, and situated in the same country (i.e. England, Scotland or Wales).

The 1954 figures have been re-tabulated to correspond as closely as possible to those for 1958, but because of the changes described above the correspondence is not always exact.

### TERMS USED IN THE CENSUS REPORTS

#### CAPITAL EXPENDITURE

The expenditure on new building work shown excludes the cost of land and existing buildings purchased; for plant, machinery and vehicles both new and second-hand items are included. The value is that charged to capital account during the year, including any transport and installation cost involved. Capital expenditure in respect of establishments in Great Britain where production had not started before the end of the year is included in Table 1.

CHARACTERISTIC PRODUCTS (See the description of the method of classification before List of Tables)

#### EMPLOYMENT

##### (i) Working proprietors

These include all persons regarded as 'self-employed' for National Insurance purposes, and members of their families who worked in the business without receiving fixed wages or salaries; but persons working less than half the normal hours are excluded.

##### (ii) Employees

Employees are classified under the two main headings of (a) administrative, technical and clerical employees and (b) operatives. The figures relate to persons on the pay-roll (i.e. whose National Insurance cards were held by employers), whether full-time or part-time employees. The figures for 1958 include, but those for 1954 exclude, persons engaged in merchanting or factoring, and canteen workers.

Administrative, technical and clerical employees include managers, superintendents, and works foremen; research, experimental, development, technical and design employees (other than operatives); draughtsmen and tracers; travellers; and office (including works office) employees.

Operatives include all other classes of employees, that is, broadly speaking, all manual wage earners. They include those employed in and about the factory or works; operatives employed in power houses, transport work, stores, warehouses and, for 1958, canteens; inspectors, viewiers and similar workers; maintenance workers; and cleaners. Operatives engaged in outside work of erection, fitting etc. are also included, but outworkers (i.e. persons employed by the firm who worked on materials

supplied by the firm in their own homes, etc.) are excluded.

##### (iii) Total employment

This is the sum of the average number of employees and the number of working proprietors; outworkers are excluded.

#### ENTERPRISE

The term enterprise is used in this report to mean one or more firms under common ownership or control as defined in the Companies Act, 1948. An enterprise normally consists either of a single firm, or of a holding company together with its subsidiary companies.

#### ENTRIES

The number of entries shown in Tables 4, 5 and 7 is the number of returns on which figures against a particular output or production heading were recorded. The number of entries is less than the corresponding number of establishments to the extent that combined returns were made covering more than one of the establishments concerned.

#### ESTABLISHMENT

In most cases an establishment comprises the whole of the premises under the same ownership or management at a particular address (e.g. a factory or mine). Offices, warehouses, laboratories and other ancillary places of business at a separate address from the works were treated as part of the establishment.

#### INTERMEDIATE PRODUCTS

For some industries figures are given showing the total quantities made during the year of important intermediate products, i.e. products which may be further processed in the establishments in which they are produced, whether or not they are also sometimes sold. They include also goods produced from materials supplied by other firms.

#### MATERIALS AND FUEL

The totals shown include the cost of all purchases of materials and components for use in production, and of fuel (including oil, gas and electricity) for all purposes including heating, lighting and transport (where carried out by firms' own staff included in the return); all packing



materials, including the full cost of returnable cases and containers when first purchased; workshop materials; office materials; water charges; materials for repairs to firms' own buildings, plant and vehicles when carried out by their own work-people included in the return; consumable tools; and parts for machinery purchased during the year as replacements. Purchases of goods for merchanting or factoring, and canteen supplies, are included for 1958 but not for 1954. Materials supplied by customers for processing are excluded for both years.

The values shown include any duty paid (less rebate, etc.) but exclude trade discounts allowed. The cost of transport was included only if included in the cost of materials as invoiced; amounts paid to transport organisations, including firms' own separate transport organisations, for delivery of materials and fuel are therefore excluded. Materials purchased overseas were entered at their c.i.f. cost plus any duty if the cost of transport from the docks was not included in the invoiced price, and at their full delivered cost if invoiced 'carriage paid home'.

#### NET OUTPUT

The net output of an industry represents the value added to materials by the process of production and includes for 1958 the gross margin on any merchanted or factored goods sold; it constitutes the fund from which wages, salaries, rents, rates and taxes, advertising and other selling expenses, and all other similar charges have to be met, as well as depreciation and profits. There is no appreciable duplication in net output.

Net output was normally obtained by taking the total value of sales and work done (including, for 1958, the value of merchanted goods sold and canteen takings); adding the value of stocks at the end of the year and deducting their value at the beginning of the year; and deducting also the cost of materials and fuel purchased (including, for 1958, the value of goods purchased for merchanting and canteen supplies), payments for work given out to other firms, and payments for transport. The net amount of duty paid was deducted, and the net amount of subsidy received added.

#### NET OUTPUT PER PERSON EMPLOYED

The figures for net output per person employed are derived by dividing net output by total employment (see above).

PRINCIPAL PRODUCTS (See the description of the method of classification before List of Tables)

#### SALES

Sales include goods made by the business covered by the return, those made for it by out-workers or by other firms from materials given out to them (sometimes described as goods made on commission), and waste products sold. Any machinery or other capital items produced for use in the business covered by the return are also included, the value being that adopted in the firm's capital account for income tax purposes. Goods sold without being subjected to any manufacturing process (merchant or factored) and canteen takings are included for 1958 but not for 1954; where the total sales of merchant or factored goods were less than £5,000, firms were permitted to include them with the figures for sales of goods of their own production.

The value shown for sales is the net selling

#### SYMBOLS USED

The following symbols are used throughout the reports:

- .. for not available
- for nil or negligible (less than half the final digit shown)

value, defined as the amount charged to customers whether on an ex-works or delivered basis, net of any trade discounts, agents' commissions, allowances for returnable cases, purchase tax, etc.; the net amount charged for packing materials is included. Goods charged on a delivered basis to customers overseas, are included at the f.o.b. value. For work done on commission or for the trade, the value shown is the net amount charged. With a few exceptions, receipts for business and other services are not included.

To the extent that the finished products of one establishment constitute the materials purchased by another, total figures of the value of sales (and of materials and fuel purchased) include an element of duplication.

#### STOCKS AND WORK IN PROGRESS

The values shown are the income tax values of stocks of products on hand for sale, and of materials and fuel, at the beginning and end of the year of return. For 1958, but not for 1954, they include any stocks of goods held for merchanting or factoring. The value of work in progress at the two dates is also usually shown. This excludes any progress payments made to sub-contractors, and no deduction is made on account of progress payments received.

#### TRANSPORT PAYMENTS

These represent the total amount paid or credited during the year for both outwards transport of finished goods sold and inwards transport of materials and fuel purchased. They include payments to other firms, and to any separate transport organisation of the same firm, not covered by the return, but exclude the value of transport services provided by the business covered by the return. The items included are payments for hired cartage and for inwards and outwards carriage by all forms of inland transport, that is railways, road haulage, canals, coast-wise shipping, air, etc. Payments made for sea freight on goods sold to customers overseas and on materials and fuel purchased from overseas suppliers are excluded.

#### WAGES AND SALARIES

These are the 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 any payments in kind, travelling expenses, lodging allowances, etc. is excluded.

Figures are also shown for average salaries etc. paid per head for the week ended 25th October, 1958. For staff paid monthly, the figures are based on payments made in October, 1958. Where payments related to periods other than a week or month, an appropriate proportion was returned. Only those bonuses and commissions actually paid in the period are included.

#### WORK GIVEN OUT

The figures shown represent the total amount paid for work done by other firms on materials supplied to them, and also by firms' own establishments for which separate returns were made. They do not include payments to individual outworkers or payments for business and other services.

#### ROUNDING OF FIGURES

The figures in the tables have, where necessary, been rounded to the nearest final digit. There may, therefore, be apparent slight discrepancies between the sums of the constituent items and the totals shown.

# The Report on the Census of Production for 1958

## Part 108. ABRASIVES

This report on the Abrasives Industry relates to establishments engaged in shaping natural abrasives into grindstones, etc. grinding natural and synthetic abrasives; coating cloth and paper with abrasives and making abrasive bonded wheels, discs, etc. The industry corresponds to minimum list heading 469(1) of the second (1958) edition of the Standard Industrial Classification, which has been used for the first time in the 1958 Census.

This industry corresponds broadly to Industry 1K in the reports on the last detailed Census of Production, for 1954, but metallic abrasives, formerly included in this industry, now form part of minimum list heading 399(7) and are included in the report on Miscellaneous Metal Manufactures (Part 75).

For 1958 returns in full detail were required only from firms employing twenty-five or more persons and most of the tables in this report relate only to these larger firms. Estimates for the industry as a whole are given in Table 1.

The figures given for 1954 correspond as closely as possible to those collected for 1958 but the correspondence is not exact, especially in respect of the small firms who gave only limited information. Some other changes introduced in the 1958 Census also affect the comparability between 1954 and 1958 figures; these are explained in the notes prefacing this report.

There were no small establishments in this industry in Northern Ireland in 1954 or in 1958.

#### METHOD OF CLASSIFICATION

This industry is defined in terms of its principal products which are those shown in Table 4. A census return was classified to this industry if the sales of the principal products of this industry accounted for a greater proportion of its output than the principal products of any other industry. Where, however, the application of this rule would have resulted in a change of classification between 1954 (on the revised basis) and 1958, the return was classified to the same industry as for 1954 unless the output of principal products in the new industry was one third more than in the old; this modification of the general rule was designed to avoid discontinuities as the result of marginal changes of output between the two censuses. Sales of merchant products and of non-specific items such as waste products, work done and canteen takings were not taken into account in classifying returns.

A similar procedure was followed in classifying to the sub-divisions of the industry shown in Table 2, the sub-divisions being defined in terms of their characteristic products. The numbers shown in the left hand column of Table 4 identify the sub-division of which the item is a characteristic product. The total value of sales of characteristic products shown in Table 2 includes, besides the products which define the sub-divisions, other items of output assumed to be closely related to them, e.g. waste products and non-specific work done, but such items were not generally taken into account in determining the classification to sub-divisions.



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## Industry summary: United Kingdom

TABLE 1 Estimates for all firms (a)

	Unit	1954	1958
Number of enterprises	No.	..	48
Number of establishments	..	..	55
Sales	£'000	15,973	19,286
	{ goods produced and work done		
	{ merchant goods and canteen takings	..	948
Purchases of materials and fuel (b)	..	7,640	9,742
Products on hand for sale (b)	{ change during year	+ 243	- 189
	{ at end of year	1,416	1,298
Work in progress	{ change during year	+ 74	+ 78
	{ at end of year	469	924
Stocks of materials and fuel (b)	{ change during year	+ 78	+ 256
	{ at end of year	2,587	3,510
Payments for work done on materials given out	..	7	4
Payments for transport	..	222	305
Net output	..	8,501	10,328
Average number employed (c)	Th.	5.2	5.1
	{ operatives		
	{ other employees	2.3	2.7
	{ total, including working proprietors	7.5	7.8
Wages and salaries	£'000	2,485	3,075
	{ of operatives		
	{ of other employees	1,493	2,032
Capital expenditure (d)	..		
New building work	..	298	331
Plant and machinery	{ acquisitions	559	351
	{ disposals	8	12
Vehicles	{ acquisitions	88	152
	{ disposals	25	80

(a) For 1958, estimates in respect of returns from small firms and unsatisfactory returns accounted for about 3 per cent. of the total figures in which they were incorporated. A summary of the detailed returns received is given in Table 2.

(b) Goods for merchandising and canteen supplies are included for 1958 but excluded for 1954.

(c) Persons engaged in merchandising or factoring and canteen workers are included for 1958 but excluded for 1954.

(d) Including expenditure in Great Britain for establishments not yet in production.



## Analysis by sub-divisions of the industry

TABLE 2 Firms employing 25 or more persons: United Kingdom (a)

	Unit	Sub-divisions of the industry (b)				Total	
		Abrasive wheels, stones, etc.		Abrasive cloths and paper			
		11	12	1954	1958	1954	1958
Number of enterprises	No.	17	13	10	10	27	23
Number of establishments	"	19	15	13	15	32	30
Sales	£'000	10,504	13,132	5,018	5,610	15,522	18,742
{ goods produced and work done	"	..	855	..	66	..	921
{ merchantable goods and canteen takings	"	..	..	..	..	..	..
Sales of characteristic products	"	8,502	10,330	4,715	5,283	..	..
Purchases of materials and fuel (c)	"	4,631	6,569	2,794	2,899	7,424	9,467
Products on hand for sale (c)	"	+ 184	- 119	+ 53	- 65	+ 237	- 184
{ change during year	"	..	..	..	..	..	..
{ at end of year	"	672	820	705	442	1,376	1,262
Work in progress	"	+ 63	+ 53	+ 9	+ 23	+ 72	+ 76
{ change during year	"	..	..	..	..	..	..
{ at end of year	"	433	617	23	282	456	898
Stocks of materials and fuel (c)	"	- 65	+ 331	+ 141	- 82	+ 76	+ 249
{ change during year	"	..	..	..	..	..	..
{ at end of year	"	1,517	2,505	996	906	2,514	3,411
Payments for work done on materials given out	"	2	-	4	4	6	4
Payments for transport	"	140	199	76	98	215	296
Net output	"	5,914	7,485	2,347	2,551	8,261	10,036
Average number employed (d)	No.	3,606	3,414	1,425	1,532	5,031	4,946
{ operatives	"	..	..	..	..	..	..
{ other employees	"	1,702	1,939	516	656	2,218	2,595
{ total, including working proprietors	"	5,308	5,353	1,942	2,190	7,250	7,543
Net output per person employed	£	1,114	1,398	1,208	1,165	1,139	1,331
Wages and salaries	£'000	1,814	2,216	603	774	2,417	2,990
{ of operatives	"	..	..	..	..	..	..
{ of other employees	"	1,100	1,485	352	492	1,452	1,976
Wages and salaries per head	£	503	649	423	505	480	605
{ operatives	"	..	..	..	..	..	..
{ other employees	"	647	766	682	750	655	762
Capital expenditure (e)							
New building work	£'000	225	214	41	22	265	236
Plant and machinery	"	431	222	100	119	531	341
{ acquisitions	"	..	..	..	..	..	..
{ disposals	"	7	7	1	5	8	12
Vehicles	"	69	108	17	40	85	148
{ acquisitions	"	..	..	..	..	..	..
{ disposals	"	20	51	5	27	24	78

(a) The following information relates to small firms (employing fewer than 25 persons) in this industry:

	1958
Number of returns	22
Average number of persons employed including working proprietors	
Males	162
Females	29

(b) The method of classifying returns to sub-divisions of the industry is explained at the beginning of this report; the characteristic products of each sub-division are identified in Table 4.

(c) Goods for merchanting and canteen supplies are included for 1958 but excluded for 1954.

(d) Persons engaged in merchanting or factoring and canteen workers are included for 1958 but excluded for 1954.

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

## Analysis by size of enterprise within the industry, 1958

TABLE 3 Firms employing 25 or more persons: United Kingdom

Average number employed by the enterprise in this industry (a)	Enterprises	Establishments	Total sales (b)	Net output	Employees		Wages and salaries		Capital expenditure (c)	Net output per person employed (a)
					Operatives	Others	Operatives	Others		
	Number	Number	£'000	£'000	Number	Number	£'000	£'000	£'000	£
25 - 49	5	5	510	228	158	48	83	44	25	1,105
50 - 99	5	5	839	452	264	101	160	105	63	1,240
100 - 199	5	5	1,587	690	543	245	290	158	29	876
200 - 749	5	10	5,126	2,376	1,338	582	744	425	140	1,236
750 - 1,999	3	5	11,602	6,291	2,643	1,619	1,713	1,244	468	1,476
Total	23	30	19,663	10,036	4,946	2,595	2,990	1,976	725	1,331

(a) Including working proprietors.

(b) Value of sales of goods (including merchantable goods), work done, and canteen takings.

(c) Capital expenditure on new building work and on acquisition of plant, machinery and vehicles. Excluding expenditure for establishments not yet in production.



Sales of principal products of the industry by larger firms, including sales by establishments classified to other industries

TABLE 4 Firms employing 25 or more persons: United Kingdom

Industry sub-division (a)	1954		1958		Enter-prises	Entries
	Quantity	Value	Quantity	Value		
		£'000		£'000	Number	Number
	Abrasive wheels, discs, segments, sharpening stones and other shapes or forms					
11	Aluminium oxide (artificial)	..	5,776	..	7,309	12
11	Silicon carbide	..	1,807	..	1,957	9
11	Diamond impregnated	..	821	..	1,057	6
11	Other (including cut from natural rock)	..	205	..	132	6
	Abrasive paper, cloth and other flexible abrasive materials, and articles made wholly or mainly therefrom					
		Th.reams(b)		Th.reams(b)		
12	Aluminium oxide (artificial)	{ 102	1,858	98.4	2,080	} 11
		{ ..	344	..	509	
12	Emery	{ 40.6	366	30.5	289	} 7
		{ ..	345	..	321	
12	Garnet	{ 46.2	335	} 69.1	475	11
		{ ..	70			
12	Silicon carbide	{ 106	919	121	1,197	} 10
		{ ..	134	..	230	
12	Glass, flint, sand and other	{ 86	210	150	380	} 10
		{ ..	399	..	320	
	Other abrasives, ground, pulverised, refined or otherwise prepared					
		Th. tons		Th. tons		
	Natural (emery and other)	{ 4.7	211	2.8	129	} 10
		{ ..	81	..	126	
	Artificial	{ 8.5	771	} ..	1,615	7
		{ ..	504			
	Other products	{ ..	27	..	151	..
	Work done for the trade or on commission	{ ..	27	..	151	5
	Total		15,183		18,279	..
	Sales in other industries (see Table 5)		326		201	..
	Principal products of this industry sold by establishments in the industry		14,856		18,078	23
						25(c)

- (a) The number given is that of the sub-division of which the item is a characteristic product. The sales shown are total sales by larger firms, not merely sales by establishments classified to the sub-division.
- (b) Reams of 480 sheets.
- (c) This figure represents the total number of returns made by larger firms in this industry, which is less than the total number of establishments shown in Table 2 on account of combined returns covering more than one establishment.

TABLE 5 - Sales of principal products of the industry by establishments classified to other industries

Firms employing 25 or more persons: United Kingdom

The total value of the sales of principal products of the industry by establishments classified to other industries was £326,000 in 1954 and £201,000 in 1958. Owing to the risk of disclosure of information relating to individual firms, details cannot be given.

TABLE 6 - Sales of other than principal products by larger firms in the industry

Firms employing 25 or more persons: United Kingdom

The total value of sales of goods other than principal products by larger firms in the industry was £666,000 in 1954 and £664,000 in 1958. Owing to the risk of disclosure of information relating to individual firms, details cannot be given.

The total value of goods sold without being subjected to any manufacturing process (merchanted or factored) by larger firms in the industry in 1958 was £851,000. The total value of canteen takings by such firms in 1958 was £71,000. These particulars were not recorded in 1954.

TABLE 7 - Total make of intermediate products, 1958

This table is not applicable to the industry



Employment and salaries, etc. for the week ended October 25, 1958

TABLE 8 Firms employing 25 or more persons: United Kingdom

	Males	Females	Total
	Number	Number	Number
Working proprietors	2	-	2
Operatives	3,938	861	4,799
Administrative, technical and clerical employees	1,698	921	2,619
<b>Total employees</b>	<b>5,636</b>	<b>1,782</b>	<b>7,418</b>
Average salaries, etc. paid per head for the week to administrative, technical and clerical employees	£ 18.1	£ 7.2	£ 14.3

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- 120 General Printing, Publishing, Bookbinding, Engraving, etc.
- 121 Rubber
- 122 Linoleum, Leathercloth, etc.
- 123 Brushes and Brooms
- 124 Toys, Games and Sports Equipment
- 125 Miscellaneous Stationers' Goods
- 126 Plastics Moulding and Fabricating
- 127 Miscellaneous Manufacturing Industries
- 128 Construction
- 129 Gas
- 130 Electricity
- 131 Water Supply
- 132 Index of Products
- 133 Summary Volume
- 134 Summary Volume
- 135 Summary Volume



CENSUS OF PRODUCTION REPORTS FOR OTHER RECENT YEARS

The census reports for earlier years include some items which are not included in the Report on the Census of Production for 1958. The most recent reports are listed below, with an indication of any important items they contain which do not appear in the 1958 Reports. The data in all these earlier reports is analysed in accordance with the original (1948) edition of the Standard Industrial Classification.

Census of Production for 1951: Summary Tables, Part I (H.M.S.O., 1956. Price 6s. net).

No important items which do not appear in the 1958 Reports.

Census of Production for 1951: Summary Tables, Part II (H.M.S.O., 1956. Price 6s. net).

Channels of sales, 1948

Payments for services, 1948

Shift working, 1951

Power equipment, 1951

Prime movers, 1951

Analysis of periods covered by census returns, 1948 and 1951.

The Report on the Censuses of Production for 1952 and 1953. Introductory Notes and 5 volumes. (These volumes are now out of print.)

No important items which do not appear in the 1958 Reports.

The Report on the Census of Production for 1954. Introductory Notes, Index of Products, and 154 booklets relating to individual industries (H.M.S.O., 1956-59. Prices vary, usually from 1s. 6d. to 2s. net for each booklet).

Detailed information about materials and fuel purchased.

Census of Production for 1954: Summary Tables, Part I (H.M.S.O., 1958. Price 9s. net).

Fuel purchased

Gas produced in certain industries

Electricity generated, purchased and sold

Materials purchased: iron and steel; non-

ferrous metals; paint; plastics materials;

cotton and rayon, nylon, etc. textiles; timber;

packing materials; replacement parts for plant

etc. (Information about purchases of other

materials is given in The Report on the Census

of Production for 1954.)

Census of Production for 1954: Summary Tables, Part II (H.M.S.O., 1959. Price 7s. net).

Regional analyses of gross output, net output and capital expenditure.

Census of Production for 1954: Summary Tables, Part III (H.M.S.O., 1959. Price 8s. net).

Sales of particular products by certain industries in Scotland and Wales.

The Report on the Censuses of Production for 1955, 1956 and 1957. Introductory Notes and 5 volumes (H.M.S.O., 1959. Prices 1s. 6d. to 3s. 6d. net according to size of volume).

No important items which do not appear in the 1958 Reports.



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