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Census File Number

Item 17. CONSUMPTION OF SELECTED MATERIALS DURING 1997

INSTRUCTIONS

1. General – The materials, parts, and supplies listed below are those commonly consumed in the manufacture, processing, or assembly of the products listed in item 18B. Please review the entire list and report separately each item consumed. Leave blank if you do not consume the item. If you use materials, parts, and supplies which are not listed, describe and report them in the "Cost of all other materials . . ." line at the end of this section. If you consumed less than \$25,000 of a listed material, include the value with "Cost of all other materials . . .," Census material code 970099 8.

Report materials, parts, and supplies purchased, transferred from other plants of your company, or withdrawn from inventory.

If quantities are requested, please use the unit of measure specified.

If the information as requested cannot be taken directly from your book records, REASONABLE ESTIMATES ARE ACCEPTABLE.

2. Valuation of Materials Consumed – The value of the materials, etc., consumed should be based on the delivered cost; i.e., the amount paid or payable after discounts and including freight and other direct charges incurred in acquiring the materials.

Materials received from other plants within your company should be reported at their full economic value (the value assigned by the shipping plant, plus the cost of freight and other handling charges).

If purchases or transfers do not differ significantly from the amounts actually put into production, you may report the cost of purchases or transfers. However, if consumption differs significantly from the amounts purchased or transferred, these amounts should be adjusted for changes in the materials and supplies inventories by adding the beginning inventory to the amount purchased or transferred and subtracting ending inventory.

3. Contract Work – Include as materials consumed those you purchased for use by others making products for you under contract. Amounts paid to the companies doing the contract work should be reported in item 10, line e, and should include freight in and out. On the other hand, materials owned by others but used at this establishment in making products for others under contract or on commission should be excluded.

4. Resales – Cost for products bought and sold, or transferred from other establishments of your company and sold without further manufacture, processing, or resale, should be reported in item 10, line b, not in item 17 below. The value of these products shipped by this establishment should be reported in item 18B under Census product code 99989 00 6, "Resales."

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Line No.	Materials, parts, and supplies	Census material code	Consumption of purchased materials and of materials received from other establishments of your company		
			Cost, including delivery cost (freight-in)		
			(E)		
	(A)	(B)	574 Millions	Thou- sands	Dollars
1	Fabricated metal products (except forgings)	340091 8	\$		
2	Forgings	346000 3			
3	Castings (rough and semifinished)	330091 0			
4	Nonferrous shapes and forms (Except castings, forgings, and fabricated metal products)	336002 1			
5	Pitch	286556 6			
6	Coke, petroleum coke, metallurgical coke, calcined coke, foundry coke, etc., used as raw material	299901 9			
7	Natural graphite	329508 6			
8	Artificial graphite	329900 5			
9	Carbon, ground or treated	329500 3			
10	Cost of all other materials and components, parts, containers, and supplies consumed <i>Describe the principal materials, etc., included in this value.</i>	970099 8			
11	TOTAL Sum of lines 1–10 should equal item 10, line a		\$		

Item 18A – Not applicable to this report

CONTINUE WITH ITEM 18B ON PAGE 6

Item 18B. PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 1997

INSTRUCTIONS

1. General – The manufactured products and services listed below are generally made in your industry. If you make products that are not listed, describe and report them in the "All other products made in this establishment" section at the end of item 18B. PLEASE DO NOT COMBINE PRODUCT LINES.

If quantities are requested, please use the unit of measure specified.

If the information as requested cannot be taken directly from your book records, REASONABLE ESTIMATES ARE ACCEPTABLE.

If you transfer products to other establishments within your company, you should assign the full economic value to the transferred products; i.e., include all direct costs of production and a reasonable proportion of all other costs and profits.

3. Contract Work – Report PRODUCTS MADE BY OTHERS FOR YOU FROM YOUR MATERIALS on the specific lines as if they were made in this establishment. On the other hand, do not report on the specific product lines PRODUCTS THAT YOU MADE FROM MATERIALS OWNED BY OTHERS. Report only the amount that you received for "commission or contract receipts" under Census product code 93000 00 8.

4. Resales – Do not report on the specific product lines those PRODUCTS BOUGHT AND SOLD OR TRANSFERRED FROM OTHER ESTABLISHMENTS OF YOUR COMPANY AND SOLD WITHOUT FURTHER MANUFACTURE. Report only a value under Census product code 99989 00 6, "Resales."

2. Valuation of Products – Report the value of the products shipped and services performed at the net selling value, f.o.b. plant to the customer; i.e., after discounts and allowances, and exclusive of freight charges and excise taxes.

Line No.	Products and services (A)		Census product code 581 (B)	Products shipped and other receipts				
				Value, f.o.b. plant (E)				
			584 Millions	Thou- sands	Dollars			
1	Carbon and Graphite Products (Carbon, carbon-graphite, electro-graphitic, metal-graphite, and metal-impregnated)	ELECTRODES FOR ELECTRIC FURNACES AND ELECTROLYTIC CELL USE (Including paste for self-bake electrodes) (36241)	Carbon	36241 52 9	\$			
2		Graphite	36241 56 0					
3		Brushes and contacts (including automotive, fractional horsepower and other industrial brushes)		36249 16 7				
4		Brush plates		36249 17 5				
5		Carbon and graphite fibers		36249 88 6				
6		ALL OTHER CARBON AND GRAPHITE PRODUCTS (Except refractories)	For electrical uses, including welding products – rods, plates, paste brazing, and soldering tips; illuminating carbons; pile and rheostat resistance discs, plugs, plates, and rods; power tube and rectifier parts and plates or rods; spectroscopic products; battery; electronic graphite; telephone components; resistance elements, etc. (excluding silver or other metal contacts)	36249 81 1				
7		For mechanical uses including one-piece seals, bushings and bearings, packing rings for steam seal, rotor vanes, and other uses where there is relative motion between two parts (excluding metallic oilless bearings)		36249 83 7				
8		For aerospace uses (including unmachined stock and machined items not included in other items)		36249 86 0				
9		For all other uses (including chemical, metallurgical, etc.):						
10			Paste	36249 94 4				
		Other – Specify kind						
11	Petroleum and coal products, except coke oven products, n.e.c.		29990 00 9					
12	Graphite gaskets and gasketing		30535 24 9					
13	ALL OTHER PRODUCTS MADE IN THIS ESTABLISHMENT	<i>Describe and report separately each product with a sales value of \$50,000 or more which cannot be assigned to one of the lines above. Specify unit of measure for quantity. For all remaining products, write "Other" and report a single total value.</i>		18				
14			26					
15			34					
16			42					

CONTINUE WITH ITEM 18B ON PAGE 7

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Item 18B. PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 1997- Continued

Line No.	Products and services (A)		Census product code (B)	Products shipped and other receipts		
				Value, f.o.b. plant (E)		
			581	584	Millions	Thou- sands
17	CONTRACT WORK	Receipts for work done for others on their own materials <i>Describe below products worked on and kind of work.</i>	93000 00 8	\$		
18	MISCELLANEOUS RECEIPTS	Sales of scrap, refuse, and other miscellaneous receipts (including receipts for repair work, etc.)	99980 00 5			
19	RESALES	Sales of products bought and sold without further manufacture, processing, or assembly in this establishment. The cost of such items should be reported in item 10, line b.	99989 00 6			
20	TOTAL value of shipments and other receipts Sum of lines 1 - 19, column (E)		77000 00 8	\$		

Items 19-21 - Not applicable to this report

Remarks - Please use this space for any explanations that may be essential in understanding your reported data.

Item 22. CERTIFICATION - This report is substantially accurate and has been prepared in accordance with instructions.

Name of person to contact regarding this report (<i>Print or type</i>)		Telephone	Area code	Number	Extension
667	1		2		
Name of company			Address (<i>Number and street, city, State, ZIP Code</i>)		
FROM: Month		Day	Year	TO: Month	
666	1			2	
Signature of authorized person			Title		Date