

If not shown, please enter your 11-digit Census File Number from the address label on page 1

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Report materials, parts, and supplies purchased, transferred from other plants of your company, or withdrawn from inventory.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

Line No.	Materials, parts, and supplies (A)	Census material code (B)	Unit of measure for quantities (C)	Consumption of purchased materials and of materials received from other establishments of your company					
				Quantity (D)	Cost, including delivery cost (freight-in) (E)				
					Millions	Thousands	Dollars		
		571		573	574				
1	Fabricated metal products (except forgings)	340091 8			\$				
2	Forgings	346000 3	Short tons						
3	Castings (rough and semifinished)	330091 0							
4	Shapes and Forms (Except castings, forgings, and fabricated metal products)	STEEL	Short tons						
		Ingot and semifinished shapes (blooms, billets, and slabs)		331005 9					
5		Bars, bar shapes, and other shapes and forms		331069 5					
6		Titanium and titanium-base alloy		335601 1					
7		Aluminum and aluminum-base alloy		335001 4					
8		Nickel and nickel-base alloy (including nickel-copper alloys)		335616 9					
9	All other nonferrous shapes and forms	335061 8							
10	Forgings dies	354411 1							
11	Cost of all other materials and components, parts, containers, and supplies consumed. <i>Describe the three principal materials, etc., included in this value.</i>	970099 8							
12	TOTAL Sum of lines 1–11 should equal item 10, line a				\$				

CONTINUE WITH ITEM 18B ON PAGE 6

Item 18A – Not applicable to this report

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.

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.

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."

Line No.	Products and services (A)		Census product code 581 (B)	Products shipped and other receipts		
				Quantity (Short tons) 583 (D)	Value, f.o.b. plant (E)	
					584 Millions	Thou-sands
1	Iron and Steel Forgings HOT IMPRESSION DIE IMPACT, PRESS, AND UPSET STEEL FORGINGS (34625)	Carbon steel	34625 11 1	\$		
2		Alloy steel (excluding stainless and hi-temp)	34625 13 7			
3		Stainless	34625 15 2			
4		Hi-temp (iron, nickel, or cobalt-base alloy)	34625 17 8			
5	COLD IMPRESSION DIE IMPACT, PRESS, AND UPSET STEEL FORGINGS (34626)	Carbon steel	34626 11 9			
6		Alloy steel (excluding stainless and hi-temp)	34626 13 5			
7		Stainless steel and hi-temp (iron, nickel, or cobalt-base alloy)	34626 16 8			
8	SEAMLESS ROLLED RING FORGINGS (Ferrous) (34627)	Carbon and alloy steel (excluding stainless and hi-temp)	34627 12 5			
9		Stainless steel and hi-temp (iron, nickel, or cobalt-base alloy)	34627 16 6			
10	OPEN DIE OR SMITH FORGINGS (Hammer or press), FERROUS (34628)	Carbon and alloy steel (excluding stainless and hi-temp)	34628 12 3			
11		Stainless steel and hi-temp (iron, nickel, or cobalt-base alloy)	34628 16 4			
12	HOT IMPRESSION DIE IMPACT, PRESS, AND UPSET NONFERROUS FORGINGS (34635)	Aluminum and aluminum alloy	34635 21 9			
13		Titanium and titanium alloy	34635 23 5			
14		Copper and copper-base alloy	34635 25 0			
15		Other hot impression nonferrous forgings	34635 29 2			
16	OTHER NONFERROUS FORGINGS (34639)	Cold impression die impact, press, and upset nonferrous forgings	34639 15 3			
17		Seamless rolled ring forgings (nonferrous)	34639 25 2			
18		Open die or smith forgings (hammer or press), nonferrous	34639 35 1			
19	Metal fittings, flanges, and unions for piping systems (34945)		34945 00 6			
20	FORGING DIES (Including cold forging and heading) (35441)	Open-die type	35441 33 6			
21		Closed-die type	35441 35 1			

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			
			Quantity (Short tons) (D)	Value, f.o.b. plant (E)		
				Millions	Thou- sands	Dollars
22	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		\$		
23		26				
24		34				
25		42				
26		59				
27		67				
28		CONTRACT WORK <i>Receipts for work done for others on their own materials Describe below products worked on and kind of work.</i>	93000 00 8			
29	MISCELLANEOUS RECEIPTS Sales of scrap and refuse Other miscellaneous receipts (including receipts for repair work, etc.)	99980 13 8				
30		99980 98 9				
31	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				
32	TOTAL value of shipments and other receipts Sum of lines 1-31, 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 (Print or type)		Telephone	Area code	Number	Extension	
667	1		2			
Name of company			Address (Number and street, city, State, ZIP Code)			
Period covered	FROM: Month	Day	Year	TO: Month	Day	Year
	666	1		2		
Signature of authorized person			Title		Date	