

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 and cost of all other materials . . .," Census material code 970099 8.

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."

5. Produced and Consumed – Forgings, foundries, and screw machine products – Report the quantities produced and used in manufacturing other products made in this establishment in item 19. Note that the materials used to produce these items should be reported in item 17.

Report materials, parts, and supplies purchased, transferred from other plants of your company, or withdrawn from inventory.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

Line No.	Materials, parts, and supplies (A)		Census material code (B)	Consumption of purchased materials and of materials received from other establishments of your company		
				Cost, including delivery cost (freight-in) (E)		
				Millions	Thousands	Dollars
			571	574		
1	Fluid power pumps purchased for incorporation into products of this establishment		359429 8	\$		
2	FABRICATED METAL PRODUCTS (Except forgings)	Bolts, nuts, screws, washers, rivets, and screw machine products	345001 2			
3		Pipe, valves, and pipe fittings	349402 8			
4		Other fabricated metal products	340086 8			
5	Forgings		346000 3			
6	CASTINGS (Rough and semifinished)	Iron and steel	332001 7			
7		Aluminum and aluminum-base alloy	336005 4			
8		Other nonferrous	336003 9			
9	Shapes and Forms (Except Castings, Forgings, and Fabricated Metal Products)	STEEL	Bars, bar shapes, and plates	331007 5		
10			Sheet and strip	331022 4		
11			Tubing	331068 7		
12			All other steel shapes and forms	331067 9		
13		ALUMINUM AND ALUMINUM-BASE ALLOY	Extruded shapes (including extruded rod, bar, pipe, tube, etc.)	335405 7		
14	All other aluminum and aluminum-base alloy		335007 1			
15	Other nonferrous shapes and forms		335091 5			
16	Metal powders		339915 1			

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Item 17. CONSUMPTION OF SELECTED MATERIALS DURING 1997 – Continued					
Line No.	Materials, parts, and supplies (A)	Census material code 571 (B)	Consumption of purchased materials and of materials received from other establishments of your company		
			Cost, including delivery cost (freight-in) (E)		
			574 Millions	Thou- sands	Dollars
17	Lubricating and cutting oils	290003 3	\$		
18	Paints, lacquers, varnishes, stains, enamels, japans, shellacs, and allied products	285101 2			
19	Electric motors and generators	362112 5			
20	BEARINGS (Mounted or unmounted) Ball	356218 8			
21	Roller	356201 4			
22	Plain bearings and bushings	356810 2			
23	Speed changers, gears, and industrial high-speed drives	356601 5			
24	Gaskets (all types) and packing and sealing devices	305302 2			
25	Cutting tools for machine tools	354501 9			
26	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			
27	TOTAL Sum of lines 1–26 should equal item 10, line a		\$		

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.

The value of pumps and motors shipped as hydrostatic transmissions should be reported separately in the pump and motor categories shown on lines 5 through 9 in item 18B.

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."

5. Detailed Data Reported Elsewhere – Items denoted by an asterisk(*) require totals for groups of products covered in the more frequent Current Industrial Reports (CIR). If you report on the CIR forms, the sum of the detailed CIR products should equal the total reported on this census form. The Current Industrial Reports related to this report are as follows:

- a. MA35N, Fluid Power Products (Including Aerospace)
- b. MA35P, Pumps (Except Hydraulic) and Compressors

NOTE: Only CIR totals are requested; do not duplicate detail reported on the CIR.

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

Line No.	Products and services *Item corresponds to products reported on Current Industrial Reports				Census product code <small>581</small>	Corresponds to the sum of products reported for 1997 on -		Products shipped and other receipts			
						CIR form (B-2)	Item code (B-3)	Value, f.o.b. plant (E)			
	(A)				(B-1)				<small>584</small>	Millions	Thousands
1	Fluid Power Cylinders and Actuators	NON-AEROSPACE	Hydraulic types, linear and rotary (35934)*		35934 00 9	MA35N	4501-4519	\$			
2			Pneumatic types, linear and rotary (35935)*		35935 00 6		4601-4619				
3		Aerospace-type, hydraulic and pneumatic (35932)*		35932 00 3	4851-4877						
4		Parts for fluid power cylinders and actuators, hydraulic and pneumatic, including accumulators, cushions, nonvehicular shock absorbers, and related items (35939)*		35939 00 8	4841-4847						
5	Fluid Power Pumps, Motors, and Hydrostatic Transmission Components <i>(See instructions)</i>	NON-AEROSPACE	Pumps	Reciprocating types (35943)*	35943 00 0		MA35N	5504-5517			
6				Rotary and other types, n.e.c. (35944)*	35944 00 8			5534-5538			
7			Motors (35945)*		35945 00 5			5545-5571			
8		Aerospace pumps and motors (35946)*		35946 00 3	5581-5589						
9		Parts for pumps and motors (35949)*		35949 00 7	5591-5597						
10	Industrial pumps, except fluid power*				35611 00 3	MA35P		1098-1298			
11	Other pumps, not elsewhere classified* - Specify kind				35618 00 8			1800			
12	Fluid Power Valves and Hose Fittings	AEROSPACE	Valves	Hydraulic*	3492A 00 7	MA35N		1281-1289			
13				Pneumatic*	3492B 00 5			1291			
14			Hydraulic and pneumatic hose or tube end fittings and assemblies*		3492H 00 2		2271-2277				
15			NON-AEROSPACE	Valves	Hydraulic:		3492C 00 3	MA35N	1201-1219		
16		• directional control*			3492D 00 1				1221-1249		
17		Pneumatic:					3492E 00 8		1251-1269		
18		• directional control*			3492F 00 6				1271-1279		
19		Flared (metal) fittings and couplings for, and assemblies of, tubing (including assemblies which combine tubing and hose) used in fluid power transfer systems*		3492J 00 9			2201-2209				
20		Flareless fittings and couplings (including nonmetal fittings) used in fluid power transfer systems*		3492K 00 7	2211-2221						
21		Hydraulic and pneumatic fittings and couplings for hose*		3492M 00 3	2241-2251						
22		Hydraulic and pneumatic assemblies of hose*		3492N 00 1	2261-2263						
23	Parts for fluid power valves*				3492G 00 4	1293-1295					

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Item 18B. PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 1997 – Continued									
Line No.	Products and services *Item corresponds to products reported on Current Industrial Reports			Census product code <small>581</small>	Corresponds to the sum of products reported for 1997 on –		Products shipped and other receipts		
					CIR form (B-2)	Item code (B-3)	Value, f.o.b. plant (E)		
	(A)	(B-1)	(B-2)	(B-3)			<small>584</small> Millions	Thou- sands	Dollars
24	Filters for Fluid Power Systems	NONAEROSPACE	Hydraulic*	35694 00 9	↑ MA35N ↓	3301–3309	\$		
25			Pneumatic*	35695 00 6		3311–3323			
26		Aerospace-type filters for fluid power systems (hydraulic and pneumatic)*		35696 00 4		3325, 3327			
27	Receipts for machine shop job work and job order repairs			35995 00 0					
28	Miscellaneous machinery products – <i>Specify kind</i>								
				35994 00 3					
29	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. For all remaining products, write "Other" and report a single total value.</i>							
				18					
				26					
				34					
				42					
				59					
34	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					
35	MISCELLANEOUS RECEIPTS	Receipts for repair work		99980 61 7					
		Other miscellaneous receipts (including sale of scrap and refuse, receipts for research and development, and installation or construction of products of this establishment)		99980 98 9					
36									
37	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					
38	TOTAL value of shipments and other receipts Sum of lines 1–37, column (E)			77000 00 8			\$		

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Item 19. SELECTED PRODUCTS PRODUCED IN THIS ESTABLISHMENT AND USED IN MANUFACTURING OTHER PRODUCTS MADE IN THIS ESTABLISHMENT

INSTRUCTIONS

- 1. Report below the quantity of each listed item produced in this establishment and used in manufacturing other products made in this establishment.
- 2. Purchases or receipts of the items specified below should be reported only in item 17.
- 3. Materials used to produce the items specified below should be reported in item 17.
- 4. Quantities produced for sale as such and not for incorporation in other products should be reported in item 18B.
- 5. Report quantities in the unit of measure specified in column (D).

Line No.	Item (A)	Census code (B)	Was this operation performed at this establishment during 1997? (C)		Unit of measure for quantities (D)	Quantities produced in this establishment and used in manufacturing other products made in this establishment
						(E)
			591	592		593
		Yes	No			
1	Ferrous foundries	1001 7	1 <input type="checkbox"/>	2 <input type="checkbox"/>	Short tons	
2	NONFERROUS FOUNDRIES (Except die-casting)	Aluminum	1002 5	1 <input type="checkbox"/>	2 <input type="checkbox"/>	Thousand pounds
3		Copper	1003 3	1 <input type="checkbox"/>	2 <input type="checkbox"/>	
4		Zinc	1004 1	1 <input type="checkbox"/>	2 <input type="checkbox"/>	
5		Other	1005 8	1 <input type="checkbox"/>	2 <input type="checkbox"/>	
6	Nonferrous die-casting foundries	1006 6	1 <input type="checkbox"/>	2 <input type="checkbox"/>		
7	Precision turned products (on screw machines, turning centers, and CNC equipment)	1007 4	1 <input type="checkbox"/>	2 <input type="checkbox"/>		

Items 20 and 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>)			
Period covered	FROM: Month	Day	Year	TO: Month	Day	Year
	666	1		2		
Signature of authorized person			Title		Date	