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Report materials, parts, and supplies purchased, transferred from other plants of your company, or withdrawn from inventory.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.		Ма	Consumption of purchased material and of materials received from othe establishments of y company Cost, including delivences (freight-in) (E) 571 Thou-					
			(A)	(B)		sands	Dollars	
1	Fabricated meta	I products, includ	ding forgings	340004 1	\$	<u> </u>		
2	Castings (rough	and semifinishe	d)	330091 0				
3	Shapes and Forms (Except	STEEL	Bars and bar shapes	331072 9		 		
4	castings, forgings,		Sheet and strip	331022 4		 		
5	and fabricated metal		331027 3		 			
6	products)		All other steel shapes and forms	331035 6		 		
7		COPPER AND COPPER-BASE ALLOY	Rod, bar, and bar shapes	335103 8		 		
8		ALLOY	Plate, sheet, and strip (including military cups and discs)	335143 4		 		
9			All other copper and copper-base alloy shapes and forms	335110 3		 		
10		ALUMINUM AND	Extruded shapes (including extruded rod, bar, pipe, tube, etc.)	335405 7		 		
11		ALUMINUM- BASE ALLOY	All other (wire, rolled rod and bar, powder, welded tubing, etc.)	335020 4		 		
12		All other nonfer	335099 8		 			
13	Plastics product	s consumed in th	ne form of sheets, rods, tubes, film, and other shapes	308007 4				
14	Paperboard con	tainers, boxes, a	265001 8		 			

CONTINUE WITH ITEM 17 ON PAGE 6

Form MC-3421 Page 6										
Item 17. CONSUMPTION OF SELECTED MATERIALS DURING 1997 – Continued										
Line No.	Materials, parts, and supplies	5	Census materia code	reesta I Cos	Consumption of purchased materials and of materials received from other establishments of you company Cost, including deliver cost (freight-in) (E) 574					
	(A) Special dies, tools, die sets, jigs, and fixtures (except cutting tools for		(B)		Illions S	ands Dollars				
15	machine tools)		354430	1 \$						
16	Cost of all other materials and components, parts, containers, and supplies consumed Describe the principal materials, etc., included in this value.	i	970099	8	<u> </u>					
					1					
17	TOTAL Sum of lines 1–16 should equal item 10, line a			\$; ;					
It	em 18A. SELECTED METALWORKING AND RELATED OPERATIONS PERFO ESTABLISHMENT DURING 1997	RMED I	N THIS		591 3207 8 Mark (X) appropriate I					
					Yes	No				
	Were any of the operations listed below performed in this establishment in	1997?		. 592	1 🗆	2				
	If "Yes," indicate in column (C) by marking appropriately, which of the specified oper performed in this establishment during 1997. Where "YES" is marked, show in colum approximate number of production workers on all shifts usually engaged in the spec	rations w nn (D) th ified ope	vere e eration.							
Line No.	Operation	Census code	Was opera perforr th establis during	ation med in is shment 1997?	proc worke shifts emplo op (esti	lumber of roduction rkers (on all lifts) usually bloyed when operated estimate if lecessary)				
	(A)	(B)	Yes	No	(D)				
1	Electroplating and other plating	018	1 🗆	2 🗌						
2	Galvanizing and other hot dip coating	026	1	2 🗌						
	3		1	2 🗆						
3	Heat treating of metals for production purposes	034								
4	Precision turned products (on screw machines, turning centers, and CNC equipment)	042	1 🗆	2 🗌						
5	Machine shop	059	1 🗆	2 🗌						
6	Tool and die shop (if separate from machine shop) for jigs, fixtures, dies, and other special tooling	067	1 🗆	2 🗌						
7	Pattern shop (foundry patterns only - metal, wood, etc.)	075	1 🗆	2 🗌						
8	Sheet metal work, aluminum or steel	083	1 🗆	2 🗌						
9	Stamping and blanking of metals	091	1 🗆	2 🗆						
10	Painting, lacquering, and enameling on metals	109	1	2 🗌						
			1	2 🗌						
11	Welding of steel plate for manufacturing production	117								

12 Welding repair shop

125

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

Census File Number

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."

Jo.		Products and services	Census product —code	Products shipped and other receipts Value, f.o.b. plant (E)			
Line No.			581	584	l Thou-		
		(A)	(B)	Millions	sands	Dollars	
	vehicles), such a	for aircraft (including aerospace: meeting specifications for flying as: (a) bolts, 161 KSI tensile or more; (b) bolts, less than 161 KSI tensile; other nuts; (e) rivets; (f) pins; (g) screws; (h) washers – <i>Specify</i>			 	 	
1			34527 00 2	\$	i I		
	OTHER METAL FASTENERS	Screws, bolts, and other externally threaded, such as: (a) tapping or wood screws; (b) cap, set, machine, lag, flange, or self-locking screws; (c) hex bolts; (d) mine roof bolts; (e) other bolts; or (f) other – Specify			 		
2			34524 00 9		1		
		Internally threaded, such as: (a) hex nuts; (b) square nuts; or (c) other - Specify			 		
3			34525 00 6		[[
		Nonthreaded, such as: (a) washers; (b) rivets, tubular, split (including rivet caps) and blind; (c) rivets, solid; or (d) other – <i>Specify</i>			 		
4			34526 00 4		1		
	processes [on fa	ducts made by cold-heading processes (or warm- or hot-heading astener machines]) – Specify whether end use is: (a) automotive; or household appliances (including radio and television); (d) other; or Specify			 		
5			34528 00 0		 		
6	PRECISION TURNED PRODUCTS	Automotive (34511)	34511 00 6		1 1 1		
7	AND TURNED PARTS	Aircraft	34512 31 9		 		
8	(Nonstandard items made from rod, bar, or tube stock	Ordnance	34512 39 2		 		
9	on screw machine	Household appliances, including radio and television	34512 42 6		1 1		
10	turning centers and CNC	Electric and electronic equipment, except household appliances	34512 52 5		! ! 		
11	tarriou parts	Medical equipment and supplies	34512 57 4		i i		
12	on basis of end product in which to be	Machinery	34512 62 4		 		
	incorporated)	All other end uses – Specify major end uses			 		
13	PUMPS AND		34512 98 8		<u> </u> 		
14	PUMPING EQUIPMENT	For gasoline service station use	35860 00 6		 		
15	LQUIFIVIEIVI	For other use (except fluid power pumps, vacuum pumps, concrete pumps, and pumps for motor vehicles; report those on lines 41-46) (corresponds to the sum of item codes 1098-1995 as reported on CIR form MA35P, Pumps [except hydraulic] and Compressors, for 1997)	35610 00 5				

Item 18B. PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 1997 – Continued											
No.			ervices	Census product —code	Products shipped and other receipt Value, f.o.b. plar (E)						
Line N			(B)	584 Millions	Thou-	l Dollars					
16	Fluid power va codes 1201-227	lves, hose fittings, 17 as reported on (34920 00 9	\$	 						
17		es, except fluid pov	34910 00 0		 						
		e and pipe fittings			 						
18	Other metal va	lves and pipe fittin	gs (except garde	en hose products and plumbers' brass	34980 00 3		<u> </u> 				
	Dies and interc	hose on lines 41-4 hangeable cutting		etal-cutting, for machines and	34940 00 7		 				
20	power-driven h		sories, and mac	hinists' precision measuring devices,	34235 00 2		<u>i</u> I	<u> </u>			
21	for machine to	ols and for other m	netalworking ma	chinery	35450 00 6		 				
22	Industrial mole	ls and mold boxes	(except ingot m	olds; report those on lines 41-46)	35442 00 3		 				
23	•	d tools, die sets, ji			35441 00 5		 				
24	exchangers, ta	el plate work (boile nks, vessels, and g	, incuding weldments, heat	34430 00 1		 					
25	Sheet metal wo	ork			34440 00 8		 				
26	JOB STAMPINGS	Automotive	34650 00 2		 						
27		Other	34692 00 4		 						
		hose and tubing –	netal			 					
28		elsewhere classifie	l and use	35994 00 3		 					
29					34290 00 7		 				
30	Electroplating,	plating, polishing,	and anodizing (performed on metals)	34710 00 4						
31	Etching, engra	ving, coating, and	allied services (p	performed on metals)	34790 00 6		 				
32	Receipts for ma	achine shop job wo	ork and job orde	r repairs	35995 00 0		 				
33	Fabricated Plastics	FOR TRANSPORTA-	Reinforced or fi	berglass products	3089A 00 6		 				
	Products NOT Made On Turning Centers (Excluding	TION, BUILDING OR CONSTRUCTION, ELECTRICAL	Not reinforced or fiberglass	For transportation – Specify whether motor vehicle, aircraft/aerospace, or other			 				
34	pipe, bottles, plumbing	OR ELECTRONIC,			30891 00 6		i I				
35	producto	xtures, foam OR FURNITURE roducts, COMPONENTS haminates, OR		For building or construction (except hardware; report hardware on line 40)	30898 00 1		 				
36	unsupported FURNISHING shapes, and APPLICATIONS For electrical or electronic		For electrical or electronic applications	30892 00 4		 					
37	custom compounding of purchased	For furniture components or furnishings					 				
38	resins and color concentrates;	For industrial mad	chinery	30893 00 2		 					
39	report those	Plastics dinnerwal ware (except cups Other plastics pro	; report those or	<u>·</u>	30895 00 7		 				
40		other plastics pro	uucis – <i>Specily</i> i	MIIU	30890 00 1		 				

CONTINUE WITH ITEM 18B ON PAGE 9

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

Item 18B. PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 1997 – Continued											
			Census	Products shipped and other receipts							
o.		Products and services	product code	Value, f.o.b. plant (E)							
Line No.			581	584	i	i					
Lin		(A)	(B)	Millions	Thou- sands	। । Dollars					
	ALL OTHER PRODUCTS MADE IN THIS ESTABLISH- MENT	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.			 	 					
41			18	\$	 						
42			26		! [
43			34		 						
44			42		 						
45			59		 						
46			67		 						
47	CONTRACT WORK	Receipts for work done for others on their own materials Describe below products worked on and kind of work.	93000 00 8								
		·			 	 					
					1	l I					
48	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		 	 					
49	MISCELLA- NEOUS RECEIPTS	Sales of scrap and refuse	99980 13 8		 						
50	NEGEIF 13	Other miscellaneous receipts (including receipts for repair work, etc.)	99980 98 9		 						
51		alue of shipments and other receipts nes 1-50, column (E)	77000 00 8	\$	 						
It	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 t	to contact reg	arding this report	(Print or	type)			Area code Number			nber		Extension	
667 1						Telepho	one	2					
Name of company					Address (Number and street, city, State, ZIP Code)								
	FROM: Mor	nth	Day	Yea	ir	TO:	Mon	th			Day		Year
Period covered	666 1			l I		2				i		 	
Signature of authorized person			Title								Date		