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UNITED STATES  
 DEPARTMENT OF THE INTERIOR  
 U.S. GEOLOGICAL SURVEY  
 986 NATIONAL CENTER  
 RESTON, VIRGINIA 20192

INDIVIDUAL COMPANY  
 DATA - PROPRIETARY

Unless authorization is granted in the section above the signature, the data furnished in this report will be treated in confidence by the Department of the Interior, except that they may be disclosed to Federal defense agencies, or to the Congress upon official request for appropriate purposes.

**CONSOLIDATED CONSUMERS' REPORT**

┌  
 └ (Please correct if name or address has changed.)

**FACSIMILE NUMBER**  
**1-800-543-0661**

Public reporting burden for this voluntary collection of information is estimated to average 45 MINUTES per response. A Federal agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. Comments regarding this collection of information should be directed to: U.S. Geological Survey, Statistics and Information Systems Section, 988 National Center, Reston, VA 20192. **Please do not mail survey forms to this address.**

**INSTRUCTIONS**

Collection of nonfuel minerals information is authorized by Public Law 96-479 and the Defense Production Act. This information is used to support executive policy decisions pertaining to emergency preparedness, national defense, and analyses for minerals legislation and industrial trends. The USGS relies on your voluntary and timely response to assure that its information is complete and accurate.

A report should be filed if any of the specific types of materials shown on the separate Materials Reference List are consumed at your plant(s) *or you are maintaining stocks of them*. Please complete and return a separate form for each plant **BY THE 15TH OF THE MONTH** following the reporting period. Use the enclosed envelope or fax to the toll-free number 1-800-543-0661. In completing this form, reasonable estimates should be used wherever exact data are not available. Use zero (0) when appropriate. Additional forms (including Materials Reference List and Use or Product Reference List) are available upon request.

If you have any questions concerning completion of this form, please contact the Mineral Commodities Data Unit, U.S. Geological Survey, 985 National Center, Reston, VA 20192, Telephone (703) 648-7960.

THIS REPORT COVERS THE FOLLOWING METALS AND FERROALLOYS (see separate MATERIALS REFERENCE LIST):

<b>BORON</b>	<b>COLUMBIUM</b>	<b>PHOSPHORUS</b>	<b>TITANIUM</b>
<b>CHROMIUM</b>	<b>MANGANESE</b>	<b>SILICON</b>	<b>TUNGSTEN</b>
<b>COBALT</b>	<b>MOLYBDENUM</b>	<b>TANTALUM</b>	<b>VANADIUM</b>

- Columns 5-6.**
- Report all quantities for boron, manganese, phosphorus, silicon, and titanium materials as gross weight of the specific material. Enter quantities consumed in COLUMN 5 only.
  - Report all quantities for cobalt, columbium, tantalum, molybdenum, tungsten, and vanadium materials as weights of the contained elements. Enter quantities consumed in COLUMN 6 only.
  - For chromium materials, report both gross weight and weight of the contained chromium. Enter quantities consumed in COLUMNS 5 and 6, respectively.

**Columns 7-8.** Referring to the separate Use or Product Reference List, enter the item number in COLUMN 7 and the name in COLUMN 8 that identifies the use being made of the material being consumed. If a material is consumed in the manufacture of more than one item shown on the Use or Product Reference List, the quantities consumed should be entered on separate lines and the specific end use of each indicated in COLUMNS 7 and 8.

Is this establishment operated as a subsidiary?  (1) Yes  (2) No *If "Yes," please give name and address of controlling company:*

Name of plant covered by this report	Location (Nearest city or town)	County	State	ZIP Code
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Name of person to be contacted regarding this report	Tel. area code	No.	Ext.
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Address	No.	Street	City	State	ZIP Code
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May tabulations be published which could indirectly reveal the data reported above?  (1) Yes  (2) No

Signature	Title	Date
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MATERIALS REFERENCE LIST

Code No.

Material

**BORON** - Report all quantities as gross weight of material.

- 100 -- Ferroboration
- 101 -- Other boron additives (exclude aluminum hardeners) (specify)

**CHROMIUM** - Report all quantities as gross weight of material.

Also report weight of contained chromium for quantity consumed in COLUMN 6.

Ferrochromium (codes 111 and 115):

- 111 -- Low carbon (under 3% C)
- 115 -- High carbon (3% or more C; include exothermic grades and briquets)
- 116 -- Chromium metal (over 98% Cr)
- 118 -- Ferrochromium silicon, chrome silicide (include exothermic grades)
- 120 -- Chromite ore or concentrate added directly to steel or used for furnace repair
- 121 -- Chromite ore used as foundry sand
- 122 -- Other chromium alloys or materials (specify)
- 123 -- Chromium-aluminum alloy

**COBALT** - Report all quantities as weight of contained cobalt, not gross weight of material.

- 131 -- Metal (exclude metal powder)
- 132 -- Metal powder
- 133 -- Oxide
- 134 -- Purchased scrap
- 135 -- Other cobalt materials (specify)

**COLUMBIUM AND TANTALUM** - Report all quantities as the combined weights of contained columbium and tantalum, not gross weight of material.

Ferrocolumbium (codes 140 and 141):

- 140 -- Standard grade
- 141 -- Vacuum (high purity) grade
- 142 -- Tantalum metal (include metal powder)
- 144 -- Nickel columbium
- 145 -- Columbium oxide

**Modified** 149 -- Other columbium and tantalum materials such as scrap (specify)

**MANGANESE** - Report all quantities as gross weight of material.

Ferromanganese (codes 150 and 151):

- 150 -- High carbon (over 2% C; include briquets and exothermic grades)
- 151 -- Medium carbon (0.75-2% C) and low carbon (less than 0.75% C); include nitrogen-bearing and nitrided grades and "Massive Manganese;" also include "Gimel" products only if Mn content is less than 96%.
- 153 -- Silicomanganese (include ferromanganese-silicon and briquets)
- 154 -- Manganese metal (include nitrogen-bearing, nitrided, and other special grades of electrolytic metal; also include "Gimel" products only if Mn content is 96% or greater. **Exclude** nitrogen-bearing and nitrided grades of ferromanganese and "Massive Manganese.")
- 156 -- Manganese-aluminum briquets: If these briquets are used, enter "Y" in COLUMN 5 and complete only column items (1), (2), and (9).
- 159 -- Other manganese alloys and materials (specify); please give (1) percent manganese, or (2) report quantity consumed in COLUMN 6 in terms of weight of contained manganese.

**MOLYBDENUM** - Report all quantities as weight of contained molybdenum, not gross weight of material.

- 170 -- Molybdic oxides (include briquets)
- 172 -- Calcium molybdate
- 173 -- Ferromolybdenum
- 174 -- Purified molybdenum disulfide
- 175 -- Molybdenite concentrate added directly to steel
- 176 -- Molybdenum metal powder (include pellets)
- 178 -- Ammonium molybdate
- 179 -- Sodium molybdate

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**Code No.****Material****MOLYBDENUM - Continued**

- 180 -- Scrap material (specify)
- 181 -- Other molybdenum materials (specify)

**PHOSPHORUS - Report all quantities as gross weight of material.**

- 190 -- Ferrophosphorus
- 191 -- Other phosphorus additives (specify)

**SILICON - Report all quantities as gross weight of material.**

- 200 -- Silvery pig iron (less than 25% silicon)
- 201 -- Silicon carbide (metallurgical uses only)
- Ferrosilicon (codes 202 and 206):
  - 202 -- 25-55% Silicon (include briquets and exothermic grades)
  - 206 -- 56-95% Silicon
- 207 -- Silicon metal (over 95% silicon) (exclude semiconductor grades)
- 210 -- Other silicon alloys and materials (include magnesium ferrosilicon) (specify)

**TITANIUM - Report all quantities as gross weight of material.**

- 230 -- Ferrotitanium
- 235 -- Purchased titanium scrap
- New** 238 -- Titanium sponge
- 239 -- Other titanium additives (exclude aluminum hardeners) (specify)

**TUNGSTEN - Report all quantities as weight of contained tungsten, not gross weight of material.**

- 240 -- Ferrotungsten
- Modified** 242 -- Tungsten metal powder
- Modified** 245 -- Tungsten carbide powder (include crystalline or crushed cast and that made from tungsten metal powder)
- 246 -- Ammonium tungstate
- 247 -- Other tungsten chemicals (specify)
- 248 -- Scheelite (include synthetic) added directly to steel
- 249 -- Purchased scrap
- 250 -- Other tungsten materials (specify)

**VANADIUM - Report all quantities as weight of contained vanadium, not gross weight of material.**

- 260 -- Ferrovandium (include other iron-vanadium and vanadium-iron ferroalloys such as "Carvan" and "Ferovan")
- 261 -- Vanadium-aluminum and other master alloys
- 262 -- Vanadium oxide (include fused, red cake and air dried oxides)
- 265 -- Ammonium metavanadate
- 266 -- Vanadium metal
- 267 -- Other vanadium materials (specify)



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## USE OR PRODUCT REFERENCE LIST

Item No.	Use or product
	<b>STEEL</b> - Follow American Iron and Steel Institute (AISI) definitions. Include steel for steel mill products and steel castings
01A --	Carbon steel
01B --	High-strength low-alloy steel
02 --	Stainless and heat-resisting steel
03A --	Full alloy steel
03C --	Electrical steel
04 --	Tool steel
<b>New</b> 05 --	Unspecified steel
10 --	<b>CAST IRONS</b> - Include gray, malleable, and ductile iron
15 --	<b>SUPERALLOYS</b> - Alloys which have been developed for high temperature service where relatively high stresses (tensile, thermal, vibratory, and shock) are encountered and where resistance to oxidation is frequently required
	<b>ALLOYS (other than steels, cast irons, and superalloys)</b>
21A --	Welding and alloy hard-facing rods and materials
21B --	Wear and corrosion-resistant alloys
22 --	Magnetic alloys - include both permanent and soft magnetic alloys
25 --	Aluminum
26 --	Copper
27 --	Nickel
28 --	Tungsten - include heavy metal alloys
29 --	Other alloys (specify)
	<b>MILL PRODUCTS MADE FROM METAL POWDER</b> - Include ingot, wire, rod, sheet, etc.
30A --	Electric lamp bulbs and tubes
30B --	Electrical and electronic uses (include coatings)
30C --	Other (specify)
<b>Modified</b> 31 --	<b>CEMENTED CARBIDES AND RELATED PRODUCTS</b> - Include cemented and cast carbide dies or parts, hard-facing carbide composites, cermets, diamond tools, etc.
	<b>CHEMICAL AND CERAMIC USES</b>
41 --	Pigments - include ceramic, inorganic, and organic pigments
42 --	Catalysts - include material used directly as catalysts or used to manufacture catalysts
43 --	Ground coat frit
44 --	Glass
45 --	Silicones
47 --	Drier in paints or related usage
48 --	Electroplating
49 --	Other chemical and ceramic uses (specify)



Item No.	Use or product
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**MISCELLANEOUS USES**

- |    |    |                 |
|----|----|-----------------|
| 60 | -- | Lubricants      |
| 69 | -- | Other (specify) |