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

ZINC

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. Unless objection is made in writing to the USGS, the information furnished in this report may be disclosed to the respondent's State Geological Survey (or similar State Agency) if the State has appropriate safeguards to prevent disclosing company proprietary data.

(Please correct if name or address has changed.)

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Location of plant: State _____ County _____ City or town _____

1. Zinc raw materials used in making zinc products.

This section covers stocks, receipts, consumption, and shipments of raw materials. All data (zinc content) on each line should balance (COLUMN 2 plus COLUMN 4 should equal the total of COLUMNS 5, 6, and 7). If data do not balance, please give a brief explanation under the "Remarks" section below. Losses and inventory adjustments may be included under "Consumption", but such adjustments should be noted under "Remarks".

| Raw materials (1) | Code | Stocks at beginning of period Zn content (short tons) (2) | RECEIPTS DURING PERIOD | | Consumption during period Zn content (short tons) (5) | Shipments during period Zn content (short tons) (6) | Stocks at end of period Zn content (short tons) (7) |
|--|------|--|-------------------------------------|-----------------------------------|---|---|---|
| | | | Gross weight (short tons) (3) | Zn content (short tons) (4) | | | |
| Foreign zinc ore (or concentrates)..... | 301 | | | | | | |
| Domestic zinc ore (or concentrates)..... | 309 | | | | | | |
| Slab zinc..... | 315 | | | | | | |
| Other (specify) _____ | 316 | | | | | | |
| Secondary zinc: | | | | | | | |
| Old zinc..... | 318 | | | | | | |
| Remelt zinc..... | 319 | | | | | | |
| Die castings..... | 322 | | | | | | |
| Fragmentized die castings..... | 323 | | | | | | |
| Remelt die-cast slab..... | 324 | | | | | | |
| Skimmings..... | 325 | | | | | | |
| Galvanizers' dross..... | 328 | | | | | | |
| Other flue dust..... | 329 | | | | | | |
| Steelmaking dust..... | 334 | | | | | | |
| Electrogalvanizing anodes..... | 335 | | | | | | |
| Other (specify) _____ | 336 | | | | | | |

OVER

2. Zinc products made from zinc raw materials.

This section covers your stocks, production, consumption, and shipments of products made in your plant. All data (zinc content) on each line should be in balance, COLUMN 2 plus COLUMN 3 should equal the total of COLUMNS 4, 5, and 6. If the data do not balance, please give a brief explanation under the "Remarks" section below. Inventory adjustments may be included under "Production", but such adjustments should be noted under "Remarks".

| Product (1) | Code | Stocks at beginning of period Zn content (short tons) (2) | Production during period Zn content (short tons) (3) | Consumption during period Zn content (short tons) (4) | Shipments during period Zn content (short tons) (5) | Stocks at end of period Zn content (short tons) (6) |
|--|------------|--|--|---|---|--|
| METALS: | | | | | | |
| Slab zinc: | | | | | | |
| Special high grade..... | 401 | | | | | |
| High grade..... | 402 | | | | | |
| Prime western..... | 403 | | | | | |
| Continuous galvanizing grade..... | 404 | | | | | |
| Controlled lead grade..... | 405 | | | | | |
| TOTAL slab zinc..... | 406 | | | | | |
| Electrogalvanizing anodes..... | 444 | | | | | |
| Remelt die cast slab..... | 407 | | | | | |
| Other zinc metal products (<i>specify</i>) _____ | 408 | | | | | |
| Other metal alloys containing zinc (<i>specify</i>) _____ | 409 | | | | | |
| Zinc dust..... | 410 | | | | | |
| COMPOUNDS: | | | | | | |
| Zinc oxide: | | | | | | |
| American process..... | 411 | | | | | |
| French process..... | 412 | | | | | |
| Other process (<i>specify</i>) ^{1/} _____ | 413 | | | | | |
| Zinc chloride (dry basis)..... | 422 | | | | | |
| Zinc ammonium chloride (dry basis)..... | 423 | | | | | |
| Zinc sulfate (100% ZnSO ₄)..... | 424 | | | | | |
| Other zinc chemicals (<i>specify</i>) _____ | 426 | | | | | |
| Distribution of zinc sulfate shipments: | | | | | | |
| Agriculture..... | 442 | | | | | |
| Other (<i>specify</i>) _____ | 443 | | | | | |

^{1/} Include production of impure upgraded zinc oxide produced from steelmaking dust.

Remarks:

| | | | | | | | | |
|--|--|-----|----------------|--|------|--|-------|----------|
| Name of person to be contacted regarding this report | | | Tel. area code | | No. | | Ext. | |
| Address | | No. | Street | | City | | State | ZIP Code |

May tabulations be published which could indirectly reveal the data reported above? (1) Yes (2) No

| | | | | | |
|-----------|--|-------|--|------|--|
| Signature | | Title | | Date | |
|-----------|--|-------|--|------|--|

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GENERAL INSTRUCTIONS

Please return this form in the enclosed envelope or fax to the toll-free number on the first page of this form **BY THE 15TH OF THE MONTH** following the reporting period. Complete a separate form for each establishment that was active during the reporting period. If you have nothing to report, please complete "Location of plant", sign, and return the form. Round all quantities to the nearest short ton. Do not report decimals or fractions. Use zero (0) when appropriate. Please do not make entries in shaded areas. In completing this form, reasonable estimates should be used wherever exact data are not available. Please use the space for "Remarks" to provide any specific information that will help us in the use or interpretation of the data. Additional forms 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.

SPECIFIC INSTRUCTIONS

(Please follow these guides when completing the report form.)

SECTION 1. Receipts, disposition, and stocks of zinc raw materials. Include material reworked on toll and interplant transfers.

Column 1. See definitions on back.

Column 2. **Stocks at beginning of period.** Report all zinc raw materials you have on hand at this establishment at the beginning of the reporting period, regardless of ownership. *(Entries in COLUMN 2 should equal "Ending stocks" from the preceding report.)*

Columns 3-4. **Receipts during period.** Report zinc materials received by the reporting establishment; include materials coming from other companies and those transferred from other establishments of your company. Include any quantities received for treatment on toll or other agreement.

Column 5. **Consumption.** Report zinc materials consumed in the reporting establishment during the reporting period.

Column 6. **Shipments of material in form received.** Enter the quantity of each type of material shipped without change by the reporting establishment during the reporting period. Include materials going to other domestic or foreign companies and those transferred to other establishments of your company.

Column 7. **Stocks at end of period.** Report all zinc materials you have on hand at this establishment at the end of the reporting period, regardless of ownership.

SECTION 2. Stocks, production, and disposition of zinc products made from zinc raw materials.

Column 1. Self-explanatory.

Column 2. **Stocks at beginning of period.** Report all zinc products at the reporting establishment at the beginning of the reporting period. Exclude products held outside the United States. *(Entries in COLUMN 2 should equal "Ending stocks" from the preceding report.)*

Column 3. **Production.** Report quantity of zinc products produced in the reporting establishment from materials consumed in SECTION 1 during the reporting period.

Column 4. **Consumption.** Report the quantity of zinc products used to make other zinc products (also in COLUMN 1) in the reporting establishment during the reporting period. Under "Remarks", if not apparent, please specify type of final product made from the item.

Column 5. **Shipments.** Enter the quantity of zinc products that were shipped by the reporting establishment during the reporting period. Include products shipped to other domestic or foreign companies and those transferred to other establishments of your company, including other parts of this reporting plant.

Column 6. **Stocks at end of period.** Report all zinc products at the reporting establishment at the end of the reporting period. Exclude products held outside the United States.

SEE DEFINITIONS ON REVERSE SIDE

DEFINITIONS

SECONDARY ZINC MATERIALS

Old zinc. Zinc which has been discarded because of wear, damage, or obsolescence after serving a useful purpose. Articles include sheets, sink linings, battery cans, engravers' plates, anti-corrosion plates, jar lids, weather stripping, molding, organ pipes, or any other items salvaged from commercial use of the metal (not including die castings and spent electrogalvanizing anodes).

Remelt zinc. Melted metallic zinc scrap too contaminated to be sold for slab zinc or for making an end product. This remelted scrap serves as raw feed material for primary or secondary smelters.

Die castings. Miscellaneous zinc-base die castings with or without iron and other foreign attachments. Includes reject die castings or slush castings, and old or obsolete items such as radiator grills, fuel pumps, carburetors, and other automotive or appliance castings produced from alloyed zinc.

Fragmentized die castings. Generally, automotive and appliance zinc die cast parts collected as nonmagnetic discharge from automobile and appliance shredding operations and separated from iron, stainless steel, aluminum, lead, copper, glass, rubber, plastic, oil, and rubbish.

Remelt die-cast slab. Melted zinc-base die castings in slabs or other cast forms, free of drosses and skimmings, to serve as raw material for primary and secondary smelters.

Skimmings. Material originating at galvanizing plants or zinc smelters. In this usage, the words skimmings and ashes are synonymous and refer to the residue skimmed from the top of the bath of molten zinc. This category includes sal skimmings, die cast skimmings, and other skimmings.

Electrogalvanizing anodes. Spent zinc anodes, often melted and recast as anodes, but which can serve as raw feed material for primary or secondary smelters.

Galvanizers' dross. Unswaged zinc dross from hot dip galvanizing (Batch Process), and from the top and bottom of continuous line galvanizing baths. This type of scrap is usually in slab or other forms, assaying 85 to 96 percent zinc and free of skimmings.

Steelmaking dust. Zinc-bearing flue dust generated in electric arc furnaces and other steelmaking operations processing mainly galvanized steel scrap.

Other flue dust. Mainly dust or sludge from furnacing copper-zinc or zinc alloys.

Other zinc materials. Includes scrap and residues, such as clippings, rod and die scrap, chemical residues, and any others not mentioned.

ZINC PRODUCTS MADE FROM ZINC RAW MATERIALS

Slab zinc. Primary, remelted, and redistilled zinc, by grade, in slab form, produced from primary and secondary zinc for end use, without further refining.

Remelt die-cast slab. Melted zinc-base die-cast that has been skimmed free of trapped drosses or other contaminants, containing a minimum of 90 percent zinc, and used without further refining by a consumer other than a secondary or primary zinc smelter.

Other zinc metal products. This category consists mostly of zinc-base die-casting alloys. The zinc alloy product is usually made to meet ASTM or SAE specifications, or to meet the requirements of the buyer.

Other metal alloys containing zinc. Self-explanatory.

Zinc dust and compounds. Self-explanatory.

