

A08 - ABRASIVE BLASTING, STEEL SHOT, UNCONTROLLED

CALCULATION METHODS

Ea = Ua x EF (lbs/ton blast material used)

Eh = Uh x EF (lbs/ton blast material used)

NOTES:

- Control devices, methods, and efficiencies must be identified in the database to correctly calculate emissions. Emission factors are "uncontrolled" (before the control device).

- TSP and PM10 factors are based on District engineering estimates (76 through 96).

- Trace metal default emission factors are based on ARB particulate matter speciation profile (#353). Use site and/or equipment specific data if available.

- Trace metal composition of the particulate emissions is assumed to be equivalent to the PM10 fraction of the spent blast material. Base factors on actual blast waste analyses if possible.

| POLLUTANT | District Emission Factor | EPA REFERENCE | ARB | (UNITS) | COMMENTS |
|-------------------------|-------------------------------|---|--------|-----------|---|
| | (lbs/ton blast material used) | DOCUMENT | FACTOR | | |
| NOX | | | | | |
| CO | | | | | |
| SOX | | | | | |
| TOG | | | | | |
| ROG | | | | | |
| TSP | 10.00 | No EPA abrasive blasting documents found. | | | Based on District Engineering estimates (permit files). |
| PM10 | 10.00 | | | | Assumes all emissions are PM10. |
| ALUMINUM | | | | | |
| ARSENIC | | | | | |
| BARIUM | | | | | |
| BERYLLIUM | | | | | |
| CADMIUM | 4.75E-03 | | 0.05% | lbs/lb PM | Based on ARB Particulate Matter Species Profile #353 (8/91) |
| CHROMIUM HEXAVALENT | | | | | Assumes all Chromium compounds are nonhexavalent. |
| CHROMIUM NONHEXA VALENT | 4.80E-02 | | 0.48% | lbs/lb PM | Based on ARB Particulate Matter Species Profile #353 (8/91) |
| COBALT | | | | | |
| COPPER | 4.30E-03 | | 0.04% | lbs/lb PM | Based on ARB Particulate Matter Species Profile #353 (8/91) |
| LEAD | 4.30E-03 | | 0.04% | lbs/lb PM | Based on ARB Particulate Matter Species Profile #353 (8/91) |
| MANGANESE | 4.80E-02 | | 0.48% | lbs/lb PM | Based on ARB Particulate Matter Species Profile #353 (8/91) |
| MERCURY | | | | | |
| NICKEL | 4.80E-02 | | 0.48% | lbs/lb PM | Based on ARB Particulate Matter Species Profile #353 (8/91) |
| SELENIUM | | | | | |
| SILICA, CRYSTALLINE | | | | | |
| ZINC | | | | | |

Last Updated on 8/23/99
By D. Byrnes