

**A02 - ABRASIVE BLASTING, COPPER SLAG, UNCONTROLLED**

**CALCULATION METHODS**

$E_a = U_a \times EF$  (lbs/ton blast material used)

$E_h = U_h \times EF$  (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 NONHEXAVALENT	4.80E-02		0.48%	lbs/lb PM	Based on ARB Particulate Matter Species Profile #353 (8/91)
COBALT					
COPPER	4.00E+00		40.00%	lbs/lb PM	Assume 1/2 of unspecified compounds = blast medium.
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					
ZINC					