

X22 - CADMIUM ELECTROPLATING, CHEMICAL FUME SUPPRESSANT CONTROLLED

CALCULATION METHODS

$E_a = U_a \times EF$

$E_h = U_h \times EF$

NOTES:

- U_a = Annual electrical usage, ampere-hour/year

- U_h = Maximum hourly electrical usage, ampere-hour/ hour

- Assume 95% control efficiency for anti-mist additives (i.e. foam, fume suppressant). See ARB Tech. Support Doc. to Proposed ATCM for Emissions of Cr+6 from Chrome Plating & Chromic Acid Anodizing Operations (Jan. 1988), Table III-2 and

ARB Tech. Guidance Doc. to the Criteria & Guidelines Reg. for AB2588 (Aug. 1989), page 44.

- Assume TSP = PM-10.

- C_i = Weight percent of other listed substance in solution, %.

- C_{Cr+6} = Weight percent of Cr+6 in solution, %.

- "OTHER" pollutants and their corresponding emission factors are to be manually entered.

- Assume 100% capture efficiency.

POLLUTANT	Emission Factor	REFERENCE	ARB	(UNITS)	COMMENTS
	(lbs/amp-hr)	DOCUMENT	FACTOR		
NOX					
CO					
SOX					
TOG					
ROG					
TSP	5.50E-9 x 1/C Cd	Assume TSP and PM-10 emissions are based on the average weight percent of cadmium in solution.			
PM10	5.50E-9 x 1/C Cd				
ALUMINUM					
ARSENIC					
BARIUM					
BERYLLIUM					
CADMIUM	5.50E-09	EPA's Toxic Air Pollutant Emission Factors - A Compilation for Selected Air Toxic Compounds and Sources (Oct. 1988) = 5 E-5 g Cd/amp-hr.			
OTHER	5.50E-9 x Ci/C Cd				