

X04 - DECORATIVE CHROME ELECTROPLATING, HEPA FILTER 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 99% control efficiency for HEPA filter.
- 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	9.86E-08	AP-42 (July 1996), Table 12.20-1 = 0.069 grains/amp-hr.			
PM10	9.86E-08				
ALUMINUM					
BERYLLIUM					
CADMIUM					
CHLORINE					
CHROMIUM HEXAVALENT	2.91E-08	Average of ARB's Tech. Support Doc. to Proposed ATCM for Emissions of Cr+6 from Chrome Plating & Chromic Acid Anodizing Ops. (Aug. 1989) = 0.5 mg Cr+6/amp-hr (1.102E-6 lbs Cr+6/amp-hr) and AP-42 (July 1996), Table 12.20-1 = 0.033 grains Cr+6/amp-hr (4.714E-6 lbs Cr+6/amp-hr).			
OTHER	2.91E-8 x C _i /C _{Cr+6}				