

**M04 - METAL DEPOSITION, PLASMA SPRAY, WATER CURTAIN, FLAME SPRAY INC.**

**CALCULATION METHODS**

$E_a = U_a \times C_i \text{ (lbs metal / lb material sprayed)} \times EF \text{ (lbs released/lb metal sprayed)}$

$E_h = U_h \times C_i \text{ (lbs metal / lb material sprayed)} \times EF \text{ (lbs released/lb metal sprayed)}$

**NOTES:**

- Annual ( $U_a$ ) and maximum hourly ( $U_h$ ) throughputs must be individually reported for each material sprayed.
- Emission factors are in units of (lbs individual metal released / lb individual metal sprayed) after controls.
- Site specific emission factors should be used where available.
- Default emission factors have been developed from the limited site specific data collected to date. These values will be updated as additional information is generated.
- Combustion related emissions of NOx, CO, SOx, PIC's, etc. are assumed to be negligible as no emissions information currently exists.
- Only very limited data regarding the conversion rate of chromium to hexavalent chromium exists. At this time, source test results are used for Cr+6 in lieu of a more standard approach.

<b>POLLUTANT</b>	<b>District Emission Factor</b>	<b>REFERENCE</b>	<b>TEST</b>	<b>(UNITS)</b>	<b>COMMENTS</b>
	<b>(lbs/lb emissions)</b>	<b>DOCUMENT</b>	<b>LOCATION</b>		
NOX					
CO					
SOX					
TOG					
ROG					
TSP	1.05E-03	average of Ni & Cr test results	FLAME SPRAY	lbs/lb material sprayed	Base this estimate on overall usage (lbs of material)
PM10	1.05E-03	average of Ni & Cr test results	FLAME SPRAY	lbs/lb material sprayed	Base this estimate on overall usage (lbs of material)
ALUMINUM					
ARSENIC					
BARIUM					
BERYLLIUM					
CADMIUM					
CHROMIUM HEXA VALENT	1.02E-03	Site Specific test result			
CHROMIUM NONHEXA VALENT	2.70E-04	Site Specific test result			
NICKEL	8.10E-04	Site Specific test result			
* OTHER LISTED METALS	1.05E-03	average of Ni & Cr test results			Assume other metals released at a rate equal to the average of the Ni & Cr (total) values.
ZINC					