

Exposure Limits

Substance	Prevalent In	OSHA - PEL (Enforceable) ¹	ACGIH [®] - TLV [®] (Recommended)
Aluminum	Aluminum Alloys, Steel Additive, Electrode Coatings	5.0 mg/m ³ TWA	1.0 mg/m ³ TWA
Beryllium	Copper, Magnesium & Aluminum Alloys	0.002 mg/m ³ TWA, 0.025 mg/m ³ Ceiling	0.00005 mg/m ³ TWA
Cadmium	Coatings of Electrodes	0.005 mg/m ³ TWA	0.1 mg/m ³ TWA
Copper	Copper Metals, Electrodes	0.1 mg/m ³ TWA	0.2 mg/m ³ TWA
Hexavalent Chromium	Stainless, High Alloy Steels, Some Non-Alloy Sheets	0.005 mg/m ³ TWA, 0.1 mg/m ³ TWA	0.05 mg/m ³ TWA
Iron (Iron Oxide)	Most Welding Fumes	5.0 mg/m ³ TWA	5.0 mg/m ³ TWA
Lead	Solder, Brass & Bronze Alloys, Steel Coatings	0.05 mg/m ³ TWA	0.05 mg/m ³ TWA
Manganese	Most Welding Fumes: Electrodes & Steels	5.0 mg/m ³ Ceiling ²	0.02 mg/m ³ TWA
Nickel	Stainless, Nickel Alloys	0.5 mg/m ³ TWA	0.2 mg/m ³ TWA
Zinc (Zinc Oxide)	Galvanized Metal Coatings	5.0 mg/m ³ TWA	2.0 mg/m ³ TWA