

Substance	Prevalent In	Exposure Limits	
		OSHA - PEL (Enforceable) ¹	ACGIH® - TLV® (Recommended)
Hexavalent Chromium	Stainless, High Alloy Steels	5.0 ug/m ³ TWA, 2.5 ug/m ³ TWA	0.05 mg/m ³ TWA
Zinc (Zinc Oxide)	Galvanized Metal Coatings	5.0 mg/m ³ TWA	2.0 mg/m ³ TWA
Manganese	Most Welding Fumes: Electrodes & Steels	5 mg/m ³ Ceiling	0.02 mg/m ³ TWA
Aluminum	Steel Additive, Electrode Coatings	5.0 mg/m ³ TWA	1.0 mg/m ³ TWA
Nickel	Stainless, Nickel Alloys	1.0 mg/m ³ TWA	0.2 mg/m ³ TWA
Iron (Iron Oxide)	Most Welding Fumes	10.0 mg/m ³ TWA	5.0 mg/m ³ TWA
Copper	Copper Metals, Electrodes	0.1 mg/m ³ TWA	0.2 mg/m ³ TWA
Cadmium	Coatings of Electrodes	0.1 mg/m ³ TWA, 0.3 mg/m ³ Ceiling	0.1 mg/m ³ TWA
Lead	Solder, Brass & Bronze Alloys, Steel Coatings	0.05 mg/m ³ TWA, 0.03 mg/m ³ Action Level	0.05 mg/m ³ TWA
Beryllium	Copper, Magnesium & Alluminum Alloys	0.002 mg/m ³ TWA, 0.005 mg/m ³ Ceiling	0.00005 mg/m ³ TWA