

# Metal Contents of Common Plating Salts



Technical Name of Salt	Chemical Formula	Percent Metal
Aluminum chloride	$\text{AlCl}_3 \cdot 6\text{H}_2\text{O}$	11.1
Aluminum chloride (anhydrous)	$\text{AlCl}_3$	20.3
Aluminum sulfate	$\text{Al}_2(\text{SO}_4)_3 \cdot 18\text{H}_2\text{O}$	8.1
Antimony trichloride	$\text{SbCl}_3$	53.4
Arsenic trioxide	$\text{As}_2\text{O}_3$	75.9
Cadmium chloride	$\text{CdCl}_2 \cdot 2\frac{1}{2}\text{H}_2\text{O}$	49.3
Cadmium cyanide	$\text{Cd}(\text{CN})_2$	68.3
Cadmium oxide	$\text{CdO}$	87.5
Cadmium sulfate	$3\text{CdSO}_4 \cdot 8\text{H}_2\text{O}$	43.3
Chloroplatinic acid	$\text{H}_2\text{PtCl}_6 \cdot 6\text{H}_2\text{O}$	37.7
Chromic acid	$\text{CrO}_3$	52.0
Cobalt chloride	$\text{CoCl}_2 \cdot 6\text{H}_2\text{O}$	24.8
Cobalt sulfate	$\text{CoSO}_4 \cdot 7\text{H}_2\text{O}$	21.0
Copper acetate	$\text{Cu}(\text{C}_2\text{H}_3\text{O}_2)_2 \cdot \text{H}_2\text{O}$	31.8
Copper carbonate (basic)	$\text{CuCO}_3 \cdot \text{Cu}(\text{OH})_2$	57.5
Copper chloride (ic)	$\text{CuCl}_2 \cdot 2\text{H}_2\text{O}$	37.3
Copper cyanide (ous)	$\text{CuCN}$	71.0
Copper fluoborate	$\text{Cu}(\text{BF}_4)_2$	26.8
Copper potassium cyanide	$\text{K}_2\text{Cu}(\text{CN})_3$	28.9
Copper pyrophosphate	$\text{Cu}_2\text{P}_2\text{O}_7$	42.3
Copper sodium cyanide	$\text{Na}_2\text{Cu}(\text{CN})_3$	33.9
Copper sulfate	$\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$	25.5
Ferric chloride (anhydrous)	$\text{FeCl}_3$	34.5
Ferric chloride	$\text{FeCl}_3 \cdot 6\text{H}_2\text{O}$	20.6
Ferric sulfate (anhydrous)	$\text{Fe}_2(\text{SO}_4)_3$	27.9
Ferrous ammonium sulfate	$\text{FeSO}_4 \cdot (\text{NH}_4)_2\text{SO}_4 \cdot 6\text{H}_2\text{O}$	14.2
Ferrous chloride	$\text{FeCl}_2 \cdot 4\text{H}_2\text{O}$	28.1
Ferrous sulfate	$\text{FeSO}_4 \cdot 7\text{H}_2\text{O}$	20.1
Gold chloride (ic)	$\text{AuCl}_3 \cdot 2\text{H}_2\text{O}$	58.0
Gold cyanide (ous)	$\text{AuCN}$	88.3
Gold potassium cyanide	$\text{KAu}(\text{CN})_2$	68.3
Gold sodium cyanide	$\text{NaAu}(\text{CN})_2$	72.5
Indium chloride	$\text{InCl}_3$	51.8
Indium cyanide	$\text{In}(\text{CN})_3$	59.4
Indium fluoborate	$\text{In}(\text{BF}_4)_3$	30.6
Indium sulfate	$\text{In}_2(\text{SO}_4)_3$	44.3
Lead carbonate (basic)	$\text{Pb}(\text{OH})_2 \cdot 2\text{PbCO}_3$	80.1
Lead fluoborate	$\text{Pb}(\text{BF}_4)_2$	54.4
Nickel acetate	$\text{Ni}(\text{C}_2\text{H}_3\text{O}_2)_2 \cdot 4\text{H}_2\text{O}$	23.6
Nickel ammonium sulfate	$\text{NiSO}_4 \cdot (\text{NH}_4)_2\text{SO}_4 \cdot 6\text{H}_2\text{O}$	14.9

Nickel carbonate (basic)	$2\text{NiCO}_3 \cdot 3\text{Ni}(\text{OH})_2 \cdot 4\text{H}_2\text{O}$	50.0
Nickel chloride	$\text{NiCl}_2 \cdot 6\text{H}_2\text{O}$	24.7
Nickel cyanide	$\text{Ni}(\text{CN})_2 \cdot 4\text{H}_2\text{O}$	32.1
Nickel fluoborate	$\text{Ni}(\text{BF}_4)_2$	25.3
Nickel sulfamate	$\text{Ni}(\text{NH}_2\text{SO}_3)_2$	23.4
Nickel sulfate	$\text{NiSO}_4 \cdot 6\text{H}_2\text{O}$	22.3
Palladium chloride	$\text{PdCl}_2$	60
Palladium diaminodinitrite (P Salt)	$\text{Pd}(\text{NH}_3)_2(\text{NO}_2)_2$	45.8
Platinum chloride (Commercial salt is often chloroplatinic acid)	$\text{PtCl}_4 \cdot 5\text{H}_2\text{O}$	45.7
Platinum diaminodinitrite (P Salt)	$\text{Pt}(\text{NH}_3)_2(\text{NO}_2)_2$	60.8
Potassium stannate	$\text{K}_2\text{SnO}_3 \cdot 3\text{H}_2\text{O}$	39.6
Rhodium chloride	$\text{RhCl}_3 \cdot 3\text{H}_2\text{O}$	39.1
Rhodium sulfate	$\text{Rh}_2(\text{SO}_4)_3$	20.8
Silver chloride	$\text{AgCl}$	75.2
Silver cyanide	$\text{AgCN}$	80.5
Silver nitrate	$\text{AgNO}_3$	63.5
Silver oxide	$\text{Ag}_2\text{O}$	93.3
Silver potassium cyanide	$\text{KAg}(\text{CN})_2$	54.2
Silver sodium cyanide	$\text{NaAg}(\text{CN})_2$	59
Silver sulfate	$\text{Ag}_2\text{SO}_4$	34.6
Sodium stannate	$\text{Na}_2\text{SnO}_3 \cdot 3\text{H}_2\text{O}$	44.5
Sodium tungstate	$\text{Na}_2\text{WO}_4 \cdot 2\text{H}_2\text{O}$	55.8
Tin chloride (ous)	$\text{SnCl}_2 \cdot 2\text{H}_2\text{O}$	52.6
Tin fluoborate (ous)	$\text{Sn}(\text{BF}_4)_2$	40.6
Tin sulfate (ous)	$\text{SnSO}_4$	55.3
Tungstic acid	$\text{H}_2\text{WO}_4$	73.6
Tungstic oxide	$\text{WO}_3$	79.3
Zinc carbonate	$\text{ZnCO}_3$	52.2
Zinc chloride	$\text{ZnCl}_2$	48
Zinc cyanide	$\text{Zn}(\text{CN})_2$	55.7
Zinc fluoborate	$\text{Zn}(\text{BF}_4)_2$	27.3
Zinc oxide	$\text{ZnO}$	80.3
Zinc pyrophosphate	$\text{Zn}_2\text{P}_2\text{O}_7$	42.9
Zinc sulfate	$\text{ZnSO}_4 \cdot 7\text{H}_2\text{O}$	22.7
Zinc sulfate (anhydrous)	$\text{ZnSO}_4$	40.4
Zinc sulfate (exsiccated)	$\text{ZnSO}_4 \cdot \text{H}_2\text{O}$	36.5