

The Metalsmith's Calculator™

Copyright © 2020 by Jeffrey Herman • jeff@hermansilver.com • hermansilver.com/metalsmiths-calculator/
Version 12.21.2020
U.S. Copyright Laws forbid the reproduction or distribution of this spreadsheet without permission.

- [↗ Metal Thickness Chart](#)
- [↗ Conversions & Calculations](#)
- [↗ Metal & Alloy Data](#)
- [↗ Typical Alloys](#)

Instructions

1. Enter your Alloy Percentages. Make sure your entries total 100%. For example, for standard sterling you would enter "7.5" in the copper cell and "92.5" in the silver cell. Please note that many American companies price their sterling as if it were 100% silver; you will need to check your supplier's practice. If your supplier charges the 100% silver price for its sterling, enter "100" in the silver cell in order to obtain an accurate price—but if you are looking for the weight, enter the true percentage composition of each metal. Standard sterling is used as an example below.
2. Enter Metal Price(s) for your alloy.
3. You can then calculate Sheet, Disk, and Wire prices and weights.
4. Option: Use the far right column to calculate the price and weight of a different thickness or diameter.
5. **Note:** Only numbers in yellow number cells can be changed. Remember to press "Enter" on your keyboard.

Click and enter Alloy Percentages.

Cobalt:	0
Copper:	2.5
Germanium:	0
Gold:	0
Iridium:	0
Nickel:	0
Palladium:	0
Platinum:	5
Rhodium:	0
Ruthenium:	0
Silver:	92.5
Tin:	0
Zinc:	0
Total:	100%

Click and enter Metal Price(s) for your alloy (this will launch your Web browser).

\$0.00	Use the cells below for notes (such as your supplier's fabrication charges).
\$3.45	
\$0.00	
\$0.00	
\$0.00	
\$0.00	
\$0.00	
\$0.00	
\$0.00	
\$0.00	
\$23.00	
\$0.00	
\$0.00	

Calculate Sheet Price & Weight

Number of pieces:	1	
Width (inches):	1.5	3.81 Centimeters
Length (inches):	8	20.32 Centimeters
Total square inches:	12	77.42 Sq. Cms.
Thickness (inches):	0.032	0.81 Millimeters

Approximate cost of alloy per troy ounce:	\$21.28	Thickness comparison ↓
Thickness (inches):	0.032	0.050
Fabrication charge per ounce:	\$0.00	\$0.00
Service charge:	\$0.00	\$0.00
Shipping:	\$0.00	\$0.00
Approximate price:	\$47.35	\$73.99
Troy Ounces:	2.22	3.48
Pennyweights:	44.50	69.53
Grams:	69.20	108.13
Pounds Avoir.:	0.15	0.24
Kilograms:	0.07	0.11

Calculate Disk Price & Weight

Number of pieces:	1	
Diameter (inches):	5	12.70 Centimeters
Total square inches:	19.64	126.68 Sq. Cms.
Thickness (inches):	0.040	1.02 Millimeters

Approximate cost of alloy per troy ounce:	\$21.28	Thickness comparison ↓
Thickness (inches):	0.040	0.050
Fabrication charge per ounce:	\$0.00	\$0.00
Service charge:	\$0.00	\$0.00
Shipping:	\$0.00	\$0.00
Approximate price:	\$96.85	\$121.06
Troy Ounces:	4.55	5.69
Pennyweights:	91.01	113.77
Grams:	141.54	176.93
Pounds Avoir.:	0.31	0.39
Kilograms:	0.14	0.18

Calculate Wire Price & Weight

Number of pieces:	1	
Length (inches):	12	30.48 Centimeters
Equals (feet):	1.00	0.30 Meters
Diameter (inches):	0.010	0.25 Millimeters

Approximate cost of alloy per troy ounce:	\$21.28	Diameter comparison ↓
Diameter (inches):	0.010	0.050
Fabrication charge per ounce:	\$0.00	\$0.00
Service charge:	\$0.00	\$0.00
Shipping:	\$24.60	\$0.00
Approximate price:	\$24.72	\$2.91
Troy Ounces:	0.01	0.14
Pennyweights:	0.11	2.73
Grams:	0.17	4.25
Pounds Avoir.:	0.00	0.01
Kilograms:	0.00	0.00