



Twin Plaza Metals

Precious Metal Stock List

Gold • Silver • Platinum



August 2019

Gold and Platinum

9ct YELLOW	9ct WHITE	9ct PINK	18ct YELLOW	18ct WHITE	18ct PINK									
WIRE ROUND 0.3mm laser wire 0.5mm 0.6mm 0.8mm 1.0mm 1.2mm 1.5mm 2.0mm 2.5mm 3.0mm 4.0mm SQUARE 0.8mm 1.0mm 1.5mm 2.0mm 4.5mm 6.0mm HALF-ROUND 1.75 x 0.81mm RECTANGULAR 1.5 x 0.5mm 2.0 x 0.8mm 2.0 x 1.0mm 3.0 x 0.3mm 3.0 x 1.0mm 4.0 x 1.0mm 5.0 x 0.5mm 5.0 x 1.0mm PLATE 0.3mm 0.5mm 1.0mm 1.5mm 2.0mm	PALLADIUM BASE GENERAL PURPOSE WIRE ROUND 0.3mm laser wire 0.8mm 1.0mm 1.5mm 2.0mm 2.5mm SQUARE 4.5mm 6.0mm PLATE 0.5mm 1.0mm 2.0mm SETTING ALLOY WIRE ROUND 1.0mm SQUARE 4.5mm 6.0mm PLATE 2.0mm	WIRE ROUND 0.3mm laser wire 0.6mm 0.8mm 1.0mm 1.5mm 2.0mm 2.5mm 3.0mm SQUARE 4.5mm 6.0mm RECTANGULAR 4.0 x 1.0mm PLATE 0.5mm 1.0mm 2.0mm	WIRE ROUND 0.3mm laser wire 0.5mm 0.8mm 1.0mm 1.2mm 1.5mm 2.0mm 3.0mm SQUARE 1.0mm 2.0mm 4.5mm 6.0mm HALF-ROUND 2.5 x 1.5mm RECTANGULAR 2.0 x 1.0mm 3.0 x 1.0mm 4.0 x 1.0mm PLATE 0.3mm 0.5mm 1.0mm 2.0mm	T ALLOY (12.5% Palladium) WIRE ROUND 0.3mm laser wire 0.8mm 1.0mm 2.0mm SQUARE 1.5mm 4.5mm 6.0mm PLATE 1.0mm 2.0mm E ALLOY (16% Palladium) WIRE ROUND 0.8mm 1.0mm SQUARE 4.5mm 6.0mm PLATE 1.0mm 2.0mm	WIRE ROUND 0.3mm laser wire 1.0mm SQUARE 4.5mm 6.0mm PLATINUM 96% PLATINUM 4% COPPER WIRE ROUND 1.0mm SQUARE 4.5mm 6.0mm PALLADIUM 99.95% PURITY GRANULES									
SOLDER														
Type	9ct Y/G				18ct Y/G			WHITE GOLD			14ct P/G	PLATINUM		
	EE	E	M	H	E	M	H	E	M	H	E	E	M	H
Wire 0.5mm					•	•	•							
Sheet 2 gm approx	•	•	•	•	•	•	•	•	•	•	•	•	•	•
7.7 gm syringe Paste		•			•									
• = AVAILABLE EE = EXTRA EASY E = EASY M = MEDIUM H = HARD														

Formulas

Formula for Weight – Sterling and Fine Silver

<p>Round Wire</p> $0.7854 \times \text{Diameter (mm)} \\ \times \text{Diameter (mm)} \\ \times \text{Length (mm)} \\ \times \text{Density} \\ \div 1000 \\ = \text{Weight in Grams}$	<p>Sheet and Square Wire</p> $\text{Length (mm)} \\ \times \text{Width (mm)} \\ \times \text{Thickness (mm)} \\ \times \text{Density} \\ \div 1000 \\ = \text{Weight in Grams}$	<p>Density</p> <p>Sterling Silver – 10.4 Spinning Silver – 10.45 Fine Silver – 10.5</p>
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Formula for Weight - Gold and Platinum

<p>Round Wire</p> $0.7854 \times \text{Diameter (mm)} \\ \times \text{Diameter (mm)} \\ \times \text{Length (mm)} \\ \times \text{Density} \div 1000 \\ = \text{Weight in Grams}$	<p>Sheet and Square Wire</p> $\text{Length (mm)} \times \text{Width (mm)} \\ \times \text{Thickness (mm)} \times \text{Density} \div 1000 \\ = \text{Weight in Grams}$	<p>Gold and Platinum Density</p> <table border="0"> <tbody> <tr> <td>9ct Yellow</td> <td>11.19</td> </tr> <tr> <td>9ct White GP</td> <td>12.80</td> </tr> <tr> <td>9ct White Setting</td> <td>13.50</td> </tr> <tr> <td>9ct Pink</td> <td>11.19</td> </tr> <tr> <td>18ct Yellow</td> <td>15.50</td> </tr> <tr> <td>18ct White T Alloy</td> <td>15.90</td> </tr> <tr> <td>18ct White E Alloy</td> <td>15.80</td> </tr> <tr> <td>18ct Pink</td> <td>15.50</td> </tr> <tr> <td>Platinum</td> <td>20.30</td> </tr> </tbody> </table>	9ct Yellow	11.19	9ct White GP	12.80	9ct White Setting	13.50	9ct Pink	11.19	18ct Yellow	15.50	18ct White T Alloy	15.90	18ct White E Alloy	15.80	18ct Pink	15.50	Platinum	20.30
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Silver

Sterling Silver Sheet

Available cut to any size from sheets 1000mm x 500mm – all sheet is dead flat

Thickness of sheet mm	Approximate weight per piece (grams)				
	50 x 50mm	100 x 100mm	200 x 200mm	500 x 250mm	1000 x 500mm
0.30	7.70	30.90	123.50	385.90	1543.50
0.40	10.30	41.20	164.60	514.50	2058.00
0.50	12.90	51.50	205.80	643.10	2572.50
0.60	15.40	61.70	247.00	771.80	3087.00
0.70	18.00	72.00	288.10	900.40	3601.50
0.80	20.60	82.30	329.30	1029.00	4116.00
0.90	23.20	92.60	370.40	1157.60	4630.50
1.00	25.70	102.90	411.60	1286.30	5145.00
1.20	30.90	123.50	493.90	1543.50	6174.00
1.50	38.60	154.40	617.40	1929.40	7717.50
1.80	46.30	186.20	740.90	2315.30	9261.00
2.00	51.50	205.80	823.20	2572.50	10290.00
2.20	56.60	226.40	905.50	2829.80	11319.00
3.00	77.20	308.70	1234.80	3858.80	15435.00
4.00	102.90	411.60	1646.40	5145.00	20580.00

Thickness of sheet mm	Spinning Silver (950) – other sizes available on request – 1 kg+				
1.00	25.70	102.90	411.60	1286.30	5145.00
1.20	30.90	129.50	495.00	1560.00	6199.00
1.50	38.60	159.40	625.00	1945.00	7740.00



Fine Silver Sheet




Available cut to any size from sheets 1000mm x 500mm – all sheet is dead flat


Thickness of sheet mm	Approximate weight per piece (grams)				
	50 x 50mm	100 x 100mm	200 x 200mm	500 x 250mm	1000 x 500mm
0.30	7.90	31.47	125.90	393.40	1573.50
0.40	10.50	41.96	167.80	524.50	2098.00
0.50	13.10	52.45	209.80	655.60	2622.50
0.70	18.40	73.43	293.70	917.90	3671.50
1.00	26.20	104.90	419.60	1311.30	5245.00
2.00	52.50	210.00	840.00	2625.00	10500.00

Silver




Sterling Silver Wire

Profile	Size - mm	Grams per metre	
ROUND  Sizes up to 6mm round are in continuous lengths	0.25	0.50	
	0.40	1.30	
	0.50 *	2.00	
	0.60 *	2.90	
	0.70 *	4.00	
	0.80 *	5.20	
	0.90 *	6.50	
	1.00 *	8.10	
	1.25 *	12.60	
	1.40	15.80	
	1.50 *	18.20	
	1.60	20.70	
	1.75 *	24.80	
	2.00 *	32.30	
	2.50 *	50.50	
	3.00	72.70	
	3.25	85.40	
	3.50	99.00	
	4.00	129.30	
	Sizes from 8mm round are in straight lengths	5.00	202.00
6.00		290.90	
8.00		517.20	
9.00		654.60	
10.00		808.20	
HALF ROUND 		1.70 x 0.85	12.40
		2.00 x 1.00	16.20
		2.26 x 1.07	19.90
		2.60 x 1.40	28.50
		3.07 x 1.14	30.50
	3.90 x 1.57	55.40	
	4.20 x 2.20	71.30	
	5.00 x 2.50	101.00	
	5.30 x 1.60	68.20	
	6.00 x 3.00	145.50	
	6.12 x 2.39	121.20	
	7.00 x 3.50	198.00	
10.00 x 5.00	404.10		

Profile	Size - mm	Grams per metre
HALF ROUND with square sides 	7.50 x 2.50	154.70
	7.50 x 3.50	218.40
SQUARE 	0.50	2.50
	0.60	3.50
	0.70	4.60
	0.80	6.60
	1.00	10.30
	1.20	14.80
	1.50	23.20
	2.00	41.20
	2.50	64.30
	3.00	92.60
RECTANGULAR 	4.50	208.40
	6.00	370.40
	8.00	658.60
	9.00	833.50
	10.00	1029.00
	2.00 x 0.80	16.50
	2.00 x 1.00	20.60
	2.50 x 0.90	23.20
	3.00 x 0.70	21.60
	3.50 x 0.50	18.00
Fine and Sterling Silver GRANULES	3.70 x 1.00	38.10
	4.00 x 1.00	41.20
	4.00 x 2.00	82.30
	5.00 x 0.30	15.40
	5.00 x 0.50	25.70
	5.00 x 1.00	51.50
	5.00 x 1.20	61.70
	6.00 x 1.00	62.60
	7.00 x 1.00	72.00
	7.00 x 1.90	136.90
8.00 x 1.00	82.30	
10.00 x 1.00	103.00	

Profile	Size - mm	Grams per metre
OVAL 	3.00 x 2.00	52.20
	4.20 x 2.10	78.60
	5.00 x 2.50	108.00
	6.00 x 3.00	163.40
	7.00 x 3.50	211.60
	10.00 x 5.00	457.50

Fine Silver Wire

Profile	Size - mm	Grams per metre	
ROUND 	0.25	0.50	
	0.40	1.30	
	0.50	2.10	
	0.70	4.00	
	1.00	8.20	
	1.20	11.90	
	2.00	33.00	
	3.00	74.10	
	RECTANGULAR 	3.00 x 0.30	9.40
		4.00 x 0.30	12.60
5.00 x 0.30		15.70	
CLOISONNE 	1.30 x 0.20	2.70	

Solder

Type	Silver				
	EE	E	M	H	En
Wire					
0.5mm	•	•	•	•	•
1.0mm		•	•	•	
1.6mm		•	•	•	
Sheet					
2 gm approx	•	•	•	•	•
Paste					
15 gm syringe		•	•	•	
30 gm syringe		•	•	•	











































• = Available
 EE = Extra Easy
 E = Easy
 M = Medium
 H = Hard
 En = Enamelling

All items (except solder) are Cadmium free. Stock is fully annealed.

* Available in hard drawn

Sterling Silver Chenier

Seamless Sterling Silver Chenier supplied in 300mm lengths









Outside Diameter mm	Inside Diameter mm	Wall Thickness mm	Grams per 300mm	Profiles	
1.00	0.50	0.25	1.80		
1.30	0.70	0.30	2.90		
1.50	0.90	0.30	3.50		
1.80	1.10	0.35	4.90		
2.00	1.00	0.50	7.30		
2.00	1.20	0.40	6.20		
2.30	1.50	0.40	7.40		
2.40	1.40	0.50	9.20		
2.50	1.80	0.35	7.30		
2.60	1.60	0.50	10.20		
2.90	1.90	0.50	11.60		
3.20	2.30	0.45	12.00		
3.40	1.80	0.80	20.20		
3.50	2.50	0.50	14.50		
3.80	3.00	0.40	13.20		
4.00	2.70	0.65	21.10		
4.30	2.90	0.70	24.40		
4.60	3.70	0.45	18.10		
4.80	3.00	0.90	34.00		
5.00	4.10	0.45	19.90		
5.50	3.80	0.85	38.30		
5.60	3.70	0.95	42.80		
6.00	4.30	0.85	42.50		
7.10	5.30	0.90	54.10		
8.10	7.30	0.40	29.90		
9.50	8.50	0.50	52.45		
10.20	9.30	0.45	42.60		
12.20	11.10	0.55	62.10		
14.20	13.10	0.55	72.88		
16.30	15.20	0.55	84.00		
18.30	15.50	1.40	229.50		
20.30	17.70	1.30	239.50		

Sizes from 10.2mm cut to length.

Supplied in 30.5mm lengths

50.00	47.00	1.50	72.90
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Seamless Sterling Silver Chenier Square supplied in 300mm lengths

Outside Diameter mm	Inside Diameter mm	Wall Thickness mm	Grams per 300mm	Profiles	
1.50	0.50	0.50	6.16		
2.00	1.00	0.50	9.06		
2.50	1.50	0.50	12.28		
3.00	1.40	0.80	20.91		
4.00	2.40	0.80	32.05		
6.00	4.20	0.90	58.64		
8.00	6.00	1.00	84.75		

Gold, Platinum and Silver Alloy Technical Data

Yellow Gold

Carat	Minimum Au Content	Also contains							Melt Point °C	Density	Hardness	Use
		Ag	Cu	Zn	Pd	Pt	Ir					
18ct	75.00	X	X					880°–890°	15.50	Medium hard	General purpose	
9ct	37.50	X	X	X				870°–950°	11.19	Medium hard	General purpose	

Pink Gold

Carat	Minimum Au Content	Also contains							Melt Point °C	Density	Hardness	Use
		Ag	Cu	Zn	Pd	Pt	Ir					
18ct	75.00	X	X	X				870°–900°	15.50	Medium hard	General purpose	
9ct	37.50	X	X	X				890°–930°	11.19	Hard	General purpose	

White Gold

Carat	Minimum Au Content	Also contains							Melt Point °C	Density	Hardness	Use
		Ag	Cu	Zn	Pd	Pt	Ir					
18ct/T	75.00	X	X	X	X			1055°–1120°	15.90	Medium hard	General purpose	
18ct/E	75.00		X	X	X			1040°–1150°	15.80	Medium hard	General purpose	
9ct	37.60	X	X	X	X			1040°–1100°	12.80	Medium hard	General purpose	
9ct setting	37.50	X			X	X	X	1370°	13.50	Medium hard	Setting	

Platinum

Carat	Minimum Pt Content	Also contains							Melt Point °C	Density	Hardness	Use
		Ag	Cu	Zn	Pd	Pt	Ir					
Pt	96.00		X			X		1730°–1745°	20.30	Medium hard	General purpose	

Silver

Carat	Minimum Ag Content	Also contains							Melt Point °C	Density	Hardness	Use
		Ag	Cu	Zn	Pd	Pt	Ir					
Fine	99.99	X						961°	10.50	Soft	Alloying and General purpose	
Sterling	92.50	X	X					890°	10.40	Medium	General purpose	

Hardness (Hv – HARDNESS VICKERS)

Hardness is based on annealed metal

Soft – Below 70 Hv • Medium – 70-90 Hv • Medium Hard – 100-129 Hv • Hard – 130-159 Hv

Solder Technical Data

Yellow Gold Solder – 9ct

Grade	Minimum Au Content	Working Temperature °C
X-Easy	37.50	620°
Easy	37.50	650°
Medium	37.50	690°
Hard	37.50	750°

Pink Gold Solder – 14ct

Grade	Minimum Au Content	Working Temperature °C
Easy	58.50	740°

Yellow Gold Solder – 18ct

Grade	Minimum Au Content	Working Temperature °C
Easy	75.00	700°
Medium	75.00	750°
Hard	75.00	820°

Platinum Solder

Grade	Minimum Pt Content	Working Temperature °C
Easy	–	1110°
Medium	–	1240°
Hard	–	1400°

White Gold Solder

Grade	Minimum Au Content	Working Temperature °C
Easy	50.00	720°
Medium	58.50	800°
Hard	83.30	850°

Silver Solder

Grade	Minimum Ag Content	Working Temperature °C
X-Easy	55.00	620°–660°
Easy	60.00	620°–685°
Medium	60.00	695°–730°
Hard	67.50	700°–730°
Enamel	75.00	740°–775°

NB Some solders contain cadmium



Twin Plaza Metals

Sydney

Level 1 • 155 Castlereagh Street
 Sydney • New South Wales 2000
 Tel 02 9264 1667 • Fax 02 9264 2653
sales@twinplaza.com

Melbourne

Level 12 • 227 Collins Street
 Melbourne • Victoria 3000
 Tel 03 9654 1477 • Fax 03 9650 5207
melbsales@twinplaza.com

Adelaide

Level 2 • 55 Gawler Place
 Adelaide • South Australia 5000
 Tel 08 8410 1117 • Fax 08 8410 1445
adelsales@twinplaza.com

www.shop.twinplaza.com