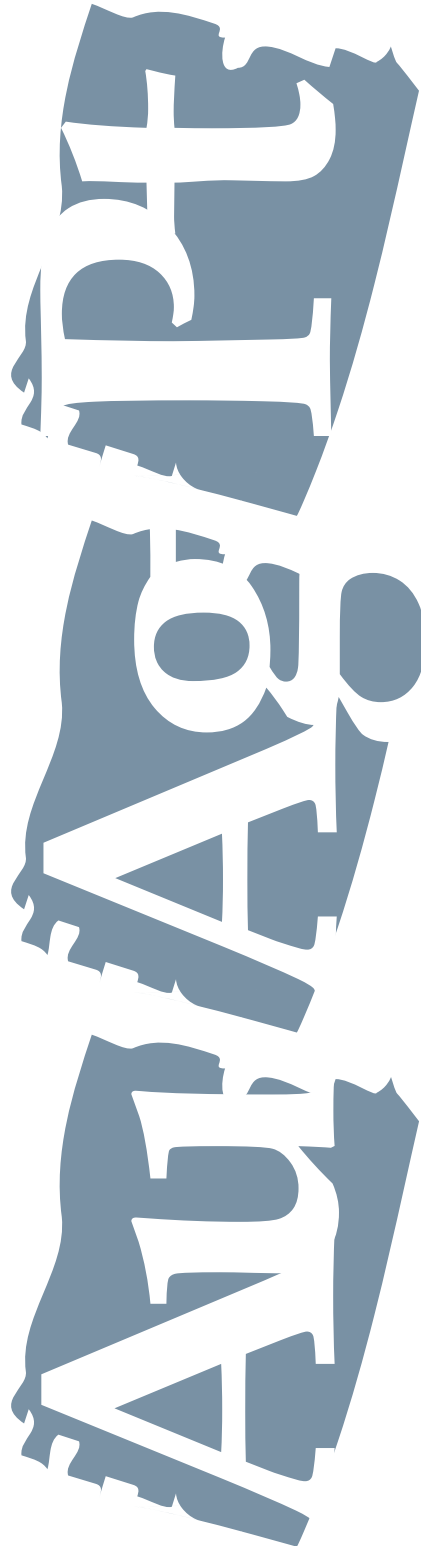




# Twin Plaza Metals Stock List

Gold • Silver • Platinum



# Gold and Platinum

9ct YELLOW	9ct WHITE	9ct PINK	18ct YELLOW	18ct WHITE	18ct PINK										
<b>WIRE</b> <b>ROUND</b> 0.5mm 0.6mm 0.8mm 1.0mm 1.2mm 1.5mm 2.0mm 2.5mm 3.0mm 4.0mm <b>SQUARE</b> 0.8mm 1.0mm 1.5mm 2.0mm 4.5mm 6.0mm <b>HALF-ROUND</b> 1.5 x 0.75mm 1.75 x 0.81mm 2.0 x 1.0mm 2.0 x 1.5mm 2.5 x 1.5mm 3.0 x 1.5mm 4.2 x 2.1mm <b>RECTANGULAR</b> 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 <b>PLATE</b> 0.3mm 0.5mm 1.0mm 1.5mm 2.0mm	<b>PALLADIUM BASE</b> GENERAL PURPOSE <b>WIRE</b> <b>ROUND</b> 0.8mm 1.0mm 1.5mm 2.0mm 2.5mm 3.0mm <b>SQUARE</b> 4.5mm 6.0mm <b>PLATE</b> 0.5mm 1.0mm 1.5mm 2.0mm <b>SETTING ALLOY</b> <b>SQUARE</b> 4.5mm 6.0mm	<b>WIRE</b> <b>ROUND</b> 0.6mm 0.8mm 1.0mm 1.5mm 2.0mm 2.5mm 3.0mm <b>SQUARE</b> 4.5mm 6.0mm <b>RECTANGULAR</b> 4.0 x 1.0mm <b>PLATE</b> 0.5mm 1.0mm 2.0mm	<b>WIRE</b> <b>ROUND</b> 0.5mm 0.6mm 0.8mm 1.0mm 1.2mm 1.5mm 2.0mm 2.5mm 3.0mm <b>SQUARE</b> 1.0mm 2.0mm 4.5mm 6.0mm <b>HALF-ROUND</b> 2.5 x 1.5mm <b>RECTANGULAR</b> 2.0 x 1.0mm 3.0 x 1.0mm 4.0 x 1.0mm <b>PLATE</b> 0.3mm 0.5mm 1.0mm 1.5mm 2.0mm	<b>T ALLOY</b> (12.5% Palladium) <b>WIRE</b> <b>ROUND</b> 0.8mm 1.0mm 2.0mm <b>SQUARE</b> 1.5mm 4.5mm 6.0mm <b>PLATE</b> 1.0mm 2.0mm <b>E ALLOY</b> (16% Palladium) <b>WIRE</b> <b>ROUND</b> 0.8mm 1.0mm <b>SQUARE</b> 4.5mm 6.0mm <b>PLATE</b> 1.0mm 2.0mm	<b>WIRE</b> <b>ROUND</b> 1.0mm <b>SQUARE</b> 4.5mm 6.0mm <b>PLATINUM</b> 96% PLATINUM 4% COPPER <b>WIRE</b> <b>ROUND</b> 1.0mm <b>SQUARE</b> 4.5mm 6.0mm <b>PALLADIUM</b> 99.95% PURITY <b>GRANULES</b>										
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	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Paste 7.7 gm syringe		•			•										
• = AVAILABLE    EE = EXTRA EASY    E = EASY    M = MEDIUM    H = HARD															

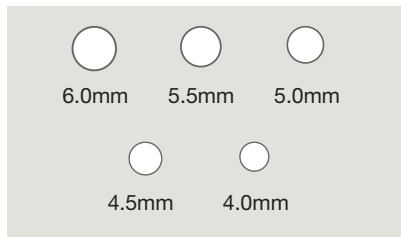
# Gold Chenier

Seamless Gold Chenier supplied in

9ct WHITE GOLD			
Outside Diameter mm	Inside Diameter mm	Wall Thickness mm	Grams per mm
5.50	4.20	0.65	8.90
6.00	4.60	0.70	10.40

18ct YELLOW GOLD			
Outside Diameter mm	Inside Diameter mm	Wall Thickness mm	Grams per 25mm
4.00	2.00	1.00	3.70
4.50	3.50	0.50	7.30
5.00	3.00	1.00	5.05
5.50	4.20	0.65	11.50
6.00	4.00	1.00	6.05

18ct WHITE GOLD			
Outside Diameter mm	Inside Diameter mm	Wall Thickness mm	Grams per 25mm
4.00	2.00	1.00	3.90
5.00	3.00	1.00	5.00
6.00	4.00	1.00	6.10



## FORMULA FOR WEIGHT GOLD & PLATINUM

<p><b>Round Wire</b></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><b>Sheet and Square Wire</b></p> $\text{Length (mm)} \times \text{Width (mm)} \times \text{Thickness (mm)} \times \text{Density} \div 1000 = \text{Weight in Grams}$	<p><b>Gold and Platinum Density</b></p> <table border="1"> <tbody> <tr> <td>9ct Yellow</td> <td>11.19</td> </tr> <tr> <td>9ct White GP</td> <td>12.30</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</td> <td>15.90</td> </tr> <tr> <td>18ct White E</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	12.30	9ct White Setting	13.50	9ct Pink	11.19	18ct Yellow	15.50	18ct White T	15.90	18ct White E	15.80	18ct Pink	15.50	Platinum	20.30
9ct Yellow	11.19																			
9ct White GP	12.30																			
9ct White Setting	13.50																			
9ct Pink	11.19																			
18ct Yellow	15.50																			
18ct White T	15.90																			
18ct White E	15.80																			
18ct Pink	15.50																			
Platinum	20.30																			

# Silver

## Sterling Silver Sheet

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

Thickness of sheet	Approximate weight per piece				
	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

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	Approximate weight per piece				
	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

## Formula for Weight – Sterling and Fine Silver

<b>Round Wire</b> $0.7854 \times \text{Diameter (mm)}$ $\times \text{Diameter (mm)}$ $\times \text{Length (mm)}$ $\times \text{Density}$ $\div 1000$ = Weight in Grams	<b>Sheet and Square Wire</b> $\text{Length (mm)}$ $\times \text{Width (mm)}$ $\times \text{Thickness (mm)}$ $\times \text{Density}$ $\div 1000$ = Weight in Grams	<b>Density</b> Sterling Silver – 10.4 Fine Silver – 10.5
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# Silver

## Sterling Silver Wire

































Profile	Size - mm	Grams per metre	Profile	Size - mm	Grams per metre	Profile	Size - mm	Grams per metre
<b>ROUND</b>  Sizes up to 4mm round are in continuous lengths	0.25	0.50	<b>HALF ROUND</b> with square sides 	7.50 x 2.50	154.70	<b>OVAL</b> 	3.00 x 2.00	52.20
	0.40	1.30		7.50 x 3.50	218.40		4.20 x 2.10	78.60
	0.50 *	2.00	<b>SQUARE</b> 	0.50	2.50		5.00 x 2.50	108.00
	0.60 *	2.90		0.60	3.50		6.00 x 3.00	163.40
	0.70 *	4.00		0.70	4.60		7.00 x 3.50	211.60
	0.80 *	5.20		0.80	6.60		10.00 x 5.00	457.50
	0.90 *	6.50		1.00	10.30	<b>RECTANGULAR</b> 	2.00 x 0.80	16.50
	1.00 *	8.10		1.20	14.80		2.00 x 1.00	20.60
	1.25 *	12.60		1.50	23.20		2.50 x 0.90	23.20
	1.40	15.80		2.00	41.20		3.00 x 0.70	21.60
	1.50 *	18.20		2.50	64.30		3.50 x 0.50	18.00
	1.60	20.70		3.00	92.60		3.70 x 1.00	38.10
	1.75 *	24.80	4.50	208.40	4.00 x 1.00		41.20	
	2.00 *	32.30	6.00	370.40	4.00 x 2.00		82.30	
	2.50 *	50.50	8.00	658.60	5.00 x 0.30		15.40	
	3.00	72.70	9.00	833.50	5.00 x 0.50		25.70	
	3.25	85.40	10.00	1029.00	5.00 x 1.00	51.50		
	3.50	99.00	<b>RECTANGULAR</b> 	2.00 x 0.80	16.50	5.00 x 1.20	61.70	
	4.00	129.30		2.50 x 0.90	23.20	6.00 x 1.00	62.60	
	Sizes from 5mm round are in 1 metre straight lengths	5.00		202.00	3.00 x 0.70	21.60	7.00 x 1.00	72.00
6.00		290.90		3.50 x 0.50	18.00	7.00 x 1.90	136.90	
8.00		517.20		3.70 x 1.00	38.10	8.00 x 1.00	82.30	
9.00		654.60		4.00 x 1.00	41.20	10.00 x 1.00	103.00	
10.00		808.20		4.00 x 2.00	82.30	<b>Fine and Sterling Silver</b> <b>GRANULES</b>		
<b>HALF ROUND</b> 		1.70 x 0.85		12.40	5.00 x 0.30		15.40	
		2.00 x 1.00		16.20	5.00 x 0.50		25.70	
		2.26 x 1.07		19.90	5.00 x 1.00		51.50	
		2.60 x 1.40	28.50	5.00 x 1.20	61.70			
		3.07 x 1.14	30.50	6.00 x 1.00	62.60			
	3.90 x 1.57	55.40	7.00 x 1.00	72.00				
	4.20 x 2.20	71.30	7.00 x 1.90	136.90				
	5.00 x 2.50	101.00	8.00 x 1.00	82.30				
	5.30 x 1.60	68.20	10.00 x 1.00	103.00				
	6.00 x 3.00	145.50	<b>RECTANGULAR</b> 	3.00 x 0.30	9.40			
6.12 x 2.39	121.20	4.00 x 0.30		12.60				
7.00 x 3.50	198.00	5.00 x 0.30		15.70				
10.00 x 5.00	404.10	<b>CLOISONNE</b> 		1.30 x 0.20	2.70			
<b>Fine Silver Wire</b>	<b>ROUND</b> 			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					
		<b>Solder</b>	<b>Type</b>	<b>Silver</b>				
				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						

\* Available in hard drawn








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

# 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	 1.0mm
1.30	0.70	0.30	2.90	 1.3mm
1.50	0.90	0.30	3.50	 1.5mm
1.80	1.10	0.35	4.90	 1.8mm
2.00	1.00	0.50	7.30	 2.0mm
2.00	1.20	0.40	6.20	 2.0mm
2.30	1.50	0.40	7.40	 2.3mm
2.40	1.40	0.50	9.20	 2.4mm
2.50	1.80	0.35	7.30	 2.5mm
2.60	1.60	0.50	10.20	 2.6mm
2.90	1.90	0.50	11.60	 2.9mm
3.20	2.30	0.45	12.00	 3.2mm
3.40	1.80	0.80	20.20	 3.4mm
3.50	2.50	0.50	14.50	 3.5mm
3.80	3.00	0.40	13.20	 3.8mm
4.00	2.70	0.65	21.10	 4.0mm
4.30	2.90	0.70	24.40	 4.3mm
4.60	3.70	0.45	18.10	 4.6mm
4.80	3.00	0.90	34.00	 4.8mm
5.00	4.10	0.45	19.90	 5.0mm
5.50	3.80	0.85	38.30	 5.5mm
5.60	3.70	0.95	42.80	 5.6mm
6.00	4.30	0.85	42.50	 6.0mm
7.10	5.30	0.90	54.10	 7.1mm
8.10	7.30	0.40	29.90	 8.1mm
9.50	8.50	0.50	52.45	 9.5mm
10.20	9.30	0.45	42.60	 10.2mm
12.20	11.10	0.55	62.10	 12.2mm
14.20	13.10	0.55	72.88	 14.2mm
16.30	15.20	0.55	84.00	 16.3mm
18.30	15.50	1.40	229.50	 18.3mm
20.30	17.70	1.30	239.50	 20.3mm

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	 1.5mm
2.00	1.00	0.50	9.06	 2.0mm
2.50	1.50	0.50	12.28	 2.5mm
3.00	1.40	0.80	20.91	 3.0mm
4.00	2.40	0.80	32.05	 4.0mm
6.00	4.20	0.90	58.64	 6.0mm
8.00	6.00	1.00	84.75	 8.0mm

# 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	37.50	X	X	X	X			880°	12.30	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°

## Yellow Gold Solder – 18ct

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

## White Gold Solder

Grade	Minimum Au Content	Working Temperature °C
Easy	50.00	690°
Medium	58.50	800°
Hard	83.30	850°

## Pink Gold Solder – 14ct

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

## Pink Gold Solder – 14ct

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

## Platinum Solder

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

## 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



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