

EVERYTHING A
JEWELLER NEEDS IN
ALLOYS & SOLDERS



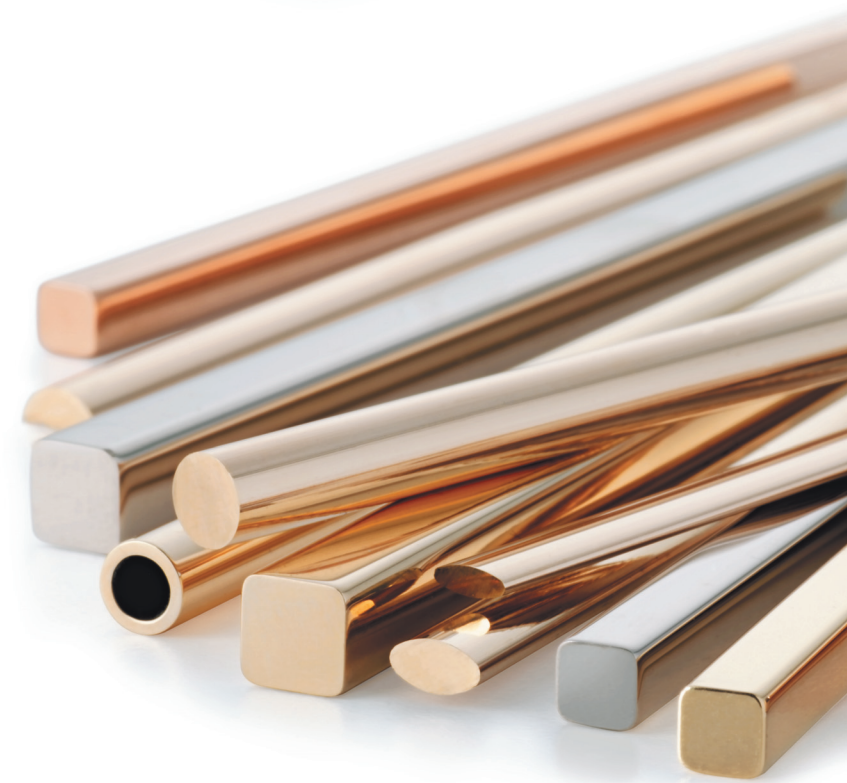
The Peter W Beck company is a long standing, privately owned and operated Australian business which continues to be developed and managed by our founder Peter Beck.

Over the course of 35 plus years, Peter W Beck has gained the reputation of being the Australian jewellery industry leader in precious metal products and services.

Peter W Beck's rigorous quality standards continue to improve through the ongoing integration of industry leading technologies. The industry benchmark set by Peter W Beck is driven higher by the knowledge and skill sets of a highly specialised and dedicated staff.

It's all part of a 35 year reputation built on trust, accuracy and reliability, focused on ultimately ... being everything a jeweller needs.

As precious metal specialists, we manufacture a full range of carated Gold, Silver, Platinum and Palladium alloys designed specifically for the manufacturing jeweller. These alloys come in several forms including Standard Gauge Wire, Casting and Fabricating Granules, Wire, Sheet, Solders and Master Alloys.



PRODUCTS

Range of alloys

We have developed an extensive range of alloys for both fabrication and casting applications. These include:

- 24, 22, 20, 18, 15, 14, 10, & 9 Carat Gold Fabrication Alloys (Yellow, Pink and White)
- 22, 18, 14, 10, & 9 Carat Gold Casting Alloys (Yellow, Pink and White)
- 22, 18, 14, & 9 Carat Master Alloys (Yellow, Pink and White)
- Gold Setting Alloys (18ct, 9ct, or Uncaratted)

- 970 and 960 Platinum Copper Fabrication Alloys
- 950 Platinum Ruthenium Fabrication Alloy
- 950 Palladium Fabrication Alloy
- Silver Fabrication Alloys
- Silver Casting Alloys
- Silver Master Alloy
- Fine Metals



Available forms



Standard Gauge Wire

Available in 4.50mm and 6.00mm square wire form. Supplied fully annealed. Standard Gauge Wire is kept in stock for same day dispatch.



All **Wire Profiles** are supplied half hard as standard and are made to order. Wire products are available in 3 working days, however a small range is kept in stock for same day dispatch. The wire profiles include:



Round Wire

From 0.30 to 7.00mm wide



Square Wire

Die drawn square
From 0.70 to 7.00mm wide



Half Round Wire

Available in 2 profiles:

True Half Round 50% (Height = Width x 50%)
From 1.00 to 10.00mm wide

Low Profile 33% (Height = Width x 33%)
From 2.00 to 15.00mm wide



Oval Wire

Available in 2 profiles:

Standard 55% (Height = Width x 55%)
From 1.00 to 8.00mm wide

Low Profile 33% (Height = Width x 33%)
From 1.50 to 10.00mm wide





Strip

Supplied half hard as standard.
Strip is available in four working days.



Chenier

Made in house from our most popular alloys,
Chenier's standard size is 30cm in length.
Shorter lengths are also available. Supplied
half hard as standard. A range of Chenier is
kept in stock for same day dispatch.



Granules

Granules are available in fine metals,
fabrication alloys, casting alloys and master
alloys. Granules are kept in stock for same
day dispatch.



Sheet

Gold and Silver sheet is available in four
working days from date of order. As a
standard, sheet is supplied fully annealed.
A range of Sterling Silver sheet is available in
varying thicknesses at 300mm x 100mm in
size, for same day dispatch.



Solder Tab

Solder Tabs are pre-cut
pieces of Solder Sheet.
They are repeatedly
stamped with unique
identifying marks.
Solder Tabs are available
in 0.35mm and 0.20mm
thickness. Solder Tabs
are kept in stock for same
day dispatch.



Solder Loose Sheet

Platinum Solder is supplied
in pieces of 0.3mm
thickness sheet. Can be cut
to your size requirements.
Loose Solder is kept in stock
for same day dispatch.



Solder Fluxes

Gold Flux Liquid and
General Purpose Flux
paste are available for
same day dispatch.



Solder Paste

Solder Paste is supplied in a
syringe applicator for easy
and accurate placement of
solder onto the workpiece.
Available in 18ct & 9ct Gold
alloys and Sterling Silver.
Solder Paste is kept in stock
for same day dispatch.



Additional items

Oxide Resistant Silver

Oxide Resistant Silver is an alternative to traditional Sterling Silver. The principle benefit is that the alloy is able to resist the formation of Copper oxides or firescale. A brilliant silver white colour and very good mechanical properties add to the appeal.



Electroplating Solution

Electroplating Solution is available in 23ct Yellow Colour Gold, 18ct Yellow Colour Flash Coating, Rhodium Plating and Black Rhodium Plating solutions.

Cleaning Salts and Acid Dip are available for surface preparation prior to plating. All electroplating products are kept in stock for same day dispatch.

NB: The 18ct Yellow Colour Flash Gold Plating solution requires a cyanide licence on purchase.



SERVICES



Coil and Saw

We offer several different profiles of high finish drawn bangle wire and if requested can coil the wire into a round fit, and saw the ends square.

To calculate the length of the wire needed to produce a bangle, the desired diameter and wire diameter is needed.

Reworks

Clean fabricated metal scrap can be remelted and reworked into a variety of fabricated profiles. When providing us with metal to rework, be mindful that contamination by casting metals, solders, base metals and oxidization will invariably result in metal failure during rework. Peter W Beck takes no responsibility for the alloy carat or final workability after remelting and reworking.

- Minimum quantity of 100g required
- Metal must be clean and fabricated metal
- Standard turnaround time is 10 working days



Granulation

Our production team can granulate clean metal when provided in scrap or ingot form. Most jewellery alloys can be granulated, however Peter W Beck reserves the right to decline this service if the alloy is deemed hazardous.

- Minimum quantity of 100g required
- Standard turnaround time is 5 working days



Ingotting Service

Clean fabricated alloys can be remelted into ingots for further cold working by the customer. As this is a specialised service, please contact our Precious Metal Services Team for more information regarding quantities and calculations.

Annealing Service

Metals can be fully annealed in our atmospherically controlled annealing furnace.

- Maximum size of the article must not exceed 400mm L x 230mm W x 50mm H
- Standard turnaround time is 5 working days

How to order

Your orders are entered into our system in one of two ways:

- You may order by weight eg:
40 grams of 18 carat yellow
4.5mm square wire

OR
- You may order by dimension eg:
40mm of 18 carat yellow
4.5mm square wire.

Both ways require essential product information to ensure we process your order accurately and deliver it on time. Please call our Precious Metal Services Team for more information.

Express Service

If you require metal earlier than our standard production times allow, you will be happy to know that we can offer an express service for wire and sheet. The extra charge incurred by this service enables our Production Team to dedicate the necessary resources to prioritise your order. The turnaround time obviously depends on the size of the order to be completed.

Contact

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Fax 08 8447 1144
Email preciousmetals@pwbeck.com.au

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Brisbane QLD 4000, Australia

Telephone 07 3316 2000
Fax 07 3012 8749
Email brisbane@pwbeck.com.au

Perth Sales Office

Level 3, 105 St Georges Terrace
Perth WA 6000, Australia

Telephone 08 9481 7388
Fax 08 9481 6778
Email perth@pwbeck.com.au

www.pwbeck.com.au



Useful information

We can supply you with an instant no obligation quotation in advance of placing your orders. For a no obligation quote, please call our Precious Metal Services Team with the relevant information ready and you will be supplied with the price for that day and an expected delivery date specific to your order.

Carat Weight Conversion Table

TO	24Y	22Y	22P	18Y	18P	18W	18GP	18WGF	14Y	14W	14P	9Y	9P	9W	9GP	FS	SS	925AG	18SA	BSA	9SA	ESA	18N	9N	PT960	PT970	PT950RU
FROM 24Y	1.000	0.924	0.913	0.803	0.785	0.810	0.823	0.817	0.671	0.869	0.678	0.578	0.581	0.650	0.662	0.543	0.536	0.533	0.900	0.705	0.693	0.613	0.765	0.605	1.052	1.066	1.071
FROM 22Y	1.082	1.000	0.987	0.868	0.849	0.876	0.890	0.884	0.726	0.940	0.733	0.625	0.629	0.703	0.716	0.587	0.580	0.576	0.974	0.763	0.749	0.663	0.828	0.655	1.138	1.153	1.159
FROM 22P	1.096	1.013	1.000	0.880	0.860	0.887	0.902	0.896	0.735	0.952	0.742	0.633	0.637	0.712	0.725	0.595	0.588	0.584	0.986	0.773	0.759	0.672	0.838	0.663	1.153	1.168	1.174
FROM 18Y	1.246	1.152	1.137	1.000	0.978	1.008	1.025	1.018	0.836	1.082	0.844	0.720	0.724	0.809	0.825	0.676	0.668	0.663	1.121	0.879	0.863	0.763	0.953	0.754	1.310	1.328	1.335
FROM 18P	1.274	1.177	1.162	1.022	1.000	1.031	1.048	1.041	0.854	1.106	0.863	0.736	0.740	0.827	0.843	0.691	0.683	0.678	1.146	0.898	0.882	0.780	0.974	0.771	1.339	1.357	1.365
FROM 18W	1.235	1.142	1.127	0.992	0.970	1.000	1.017	1.010	0.829	1.073	0.837	0.714	0.718	0.802	0.818	0.671	0.662	0.658	1.112	0.871	0.855	0.757	0.945	0.747	1.299	1.316	1.324
FROM 18GP	1.215	1.123	1.109	0.975	0.954	0.984	1.000	0.993	0.815	1.055	0.823	0.702	0.706	0.789	0.804	0.660	0.652	0.647	1.094	0.857	0.842	0.745	0.930	0.735	1.278	1.295	1.302
FROM 18WGF	1.224	1.131	1.117	0.982	0.961	0.991	1.007	1.000	0.821	1.063	0.829	0.707	0.711	0.795	0.810	0.664	0.656	0.652	1.101	0.863	0.847	0.750	0.936	0.740	1.287	1.304	1.311
FROM 14Y	1.491	1.378	1.360	1.197	1.171	1.207	1.227	1.218	1.000	1.295	1.010	0.861	0.867	0.968	0.987	0.809	0.799	0.794	1.342	1.052	1.032	0.914	1.140	0.902	1.568	1.589	1.597
FROM 14W	1.151	1.064	1.051	0.924	0.904	0.932	0.948	0.941	0.772	1.000	0.780	0.665	0.669	0.748	0.762	0.625	0.617	0.613	1.036	0.812	0.797	0.706	0.881	0.697	1.211	1.227	1.234
FROM 14P	1.476	1.364	1.347	1.185	1.159	1.195	1.215	1.206	0.990	1.282	1.000	0.853	0.858	0.959	0.977	0.801	0.791	0.786	1.328	1.041	1.022	0.905	1.129	0.893	1.552	1.573	1.581
FROM 9Y	1.731	1.600	1.580	1.390	1.359	1.401	1.425	1.415	1.161	1.504	1.173	1.000	1.006	1.125	1.146	0.940	0.928	0.922	1.558	1.221	1.199	1.061	1.324	1.047	1.821	1.845	1.855
FROM 9P	1.720	1.590	1.570	1.381	1.351	1.393	1.416	1.406	1.154	1.494	1.166	0.994	1.000	1.118	1.139	0.934	0.923	0.916	1.549	1.214	1.191	1.054	1.316	1.041	1.809	1.833	1.843
FROM 9W	1.539	1.423	1.405	1.236	1.209	1.246	1.267	1.258	1.033	1.337	1.043	0.889	0.895	1.000	1.019	0.836	0.825	0.820	1.386	1.086	1.066	0.943	1.178	0.931	1.619	1.641	1.649
FROM 9GP	1.511	1.396	1.378	1.213	1.186	1.223	1.243	1.235	1.013	1.312	1.023	0.873	0.878	0.981	1.000	0.820	0.810	0.805	1.360	1.066	1.046	0.926	1.156	0.914	1.589	1.610	1.618
FROM FS	1.842	1.703	1.681	1.479	1.446	1.491	1.516	1.505	1.235	1.600	1.248	1.064	1.071	1.196	1.219	1.000	0.988	0.981	1.658	1.299	1.276	1.129	1.409	1.114	1.937	1.963	1.973
FROM SS	1.865	1.724	1.702	1.497	1.464	1.510	1.535	1.524	1.251	1.620	1.264	1.077	1.084	1.211	1.235	1.013	1.000	0.993	1.679	1.316	1.292	1.143	1.427	1.128	1.961	1.987	1.998
FROM 925AG	1.878	1.736	1.713	1.507	1.474	1.520	1.545	1.534	1.259	1.631	1.272	1.085	1.091	1.220	1.243	1.019	1.007	1.000	1.690	1.325	1.300	1.151	1.436	1.136	1.975	2.001	2.012
FROM 18SA	1.111	1.027	1.014	0.892	0.872	0.899	0.914	0.908	0.745	0.965	0.753	0.642	0.646	0.722	0.735	0.603	0.596	0.592	1.000	0.784	0.769	0.681	0.850	0.672	1.168	1.184	1.190
FROM BSA	1.417	1.310	1.293	1.138	1.113	1.147	1.167	1.158	0.951	1.231	0.960	0.819	0.824	0.921	0.938	0.770	0.760	0.755	1.276	1.000	0.982	0.869	1.084	0.858	1.491	1.511	1.519
FROM 9SA	1.444	1.335	1.318	1.159	1.134	1.169	1.188	1.180	0.969	1.254	0.978	0.834	0.839	0.938	0.956	0.784	0.774	0.769	1.300	1.019	1.000	0.885	1.105	0.874	1.519	1.539	1.547
FROM ESA	1.632	1.508	1.489	1.310	1.281	1.321	1.343	1.334	1.095	1.417	1.106	0.943	0.948	1.060	1.080	0.886	0.875	0.869	1.469	1.151	1.130	1.000	1.248	0.987	1.716	1.739	1.748
FROM 18N	1.307	1.208	1.193	1.049	1.026	1.058	1.076	1.068	0.877	1.135	0.886	0.755	0.760	0.849	0.865	0.710	0.701	0.696	1.177	0.922	0.905	0.801	1.000	0.791	1.375	1.393	1.401
FROM 9N	1.653	1.528	1.508	1.327	1.298	1.338	1.360	1.351	1.109	1.435	1.120	0.955	0.961	1.074	1.094	0.897	0.886	0.880	1.488	1.166	1.145	1.013	1.264	1.000	1.738	1.761	1.771
FROM PT960	0.951	0.879	0.868	0.763	0.747	0.770	0.782	0.777	0.638	0.826	0.644	0.549	0.553	0.618	0.629	0.516	0.510	0.506	0.856	0.671	0.658	0.583	0.727	0.575	1.000	1.013	1.019
FROM PT970	0.938	0.867	0.856	0.753	0.737	0.760	0.772	0.767	0.629	0.815	0.636	0.542	0.545	0.610	0.621	0.509	0.503	0.500	0.845	0.662	0.650	0.575	0.718	0.568	0.987	1.000	1.005
FROM PT950RU	0.933	0.863	0.852	0.749	0.733	0.756	0.768	0.763	0.626	0.811	0.632	0.539	0.543	0.606	0.618	0.507	0.500	0.497	0.840	0.658	0.646	0.572	0.714	0.565	0.982	0.995	1.000

“From” weight x “to” conversion factor = desired weight
For example, to find out how much a Sterling Silver article of 5.00gms would weigh in 9ct Yellow Gold, follow along the “from SS” row until it intersects the “to 9Y” column. This is the figure you multiply by your Sterling Silver weight. 5.00gms x 1.077 = 5.385gms. The 5.00gm Sterling Silver article would weigh 5.385gms in 9ct Yellow Gold.



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