

## Fineness of gold (percentage of gold in alloy)



## Fineness of gold (percentage of gold in alloy)

To - metal of item you want to make

|             | Wax   | Silver | 9ct    | 14ct   | 18ct   | 22ct   | 24ct (fine) | Platinum |
|-------------|-------|--------|--------|--------|--------|--------|-------------|----------|
| Wax         | x1.00 | x10.49 | x11.30 | x12.90 | x15.10 | x17.60 | x19.32      | x21.45   |
| Silver      | x0.10 | x1.00  | x1.08  | x1.23  | x1.44  | x1.68  | x1.84       | x2.04    |
| 9ct         | x0.09 | x0.93  | x1.00  | x1.14  | x1.34  | x1.56  | x1.71       | x1.90    |
| 14ct        | x0.08 | x0.81  | x0.88  | x1.00  | x1.17  | x1.36  | x1.50       | x1.66    |
| 18ct        | x0.07 | x0.69  | x0.75  | x0.85  | x1.00  | x1.16  | x1.28       | x1.42    |
| 22ct        | x0.06 | x0.60  | x0.64  | x0.73  | x0.86  | x1.00  | x1.10       | x1.22    |
| 24ct (fine) | x0.05 | x0.54  | x0.58  | x0.67  | x0.78  | x0.91  | x1.00       | x1.11    |
| Platinum    | x0.04 | x0.49  | x0.53  | x0.60  | x0.70  | x0.82  | x0.90       | x1.00    |

How to use this table:

- Formula: 1. Weigh the item in your hand.  
2. Identify the metal of the item in your hand in the left column.  
3. Scroll horizontally across the row until you reach the vertical column under the metal you want to use.  
4. Multiply the weight of the item you hold, by the number in that box.

Use this table to find the weight of an article in a metal different from that in which it is currently made.

- Example: You have a 9ct ring weighing 8 grams. What will it weigh in 18ct?  
1. Along the horizontal row marked "9ct", and in the vertical column under the heading "18ct" we find the factor 1.34.  
2. 8 grams x 1.34 = 10.72 grams in 18ct

## Conversion table

|                                   |                                  |                             |                           |
|-----------------------------------|----------------------------------|-----------------------------|---------------------------|
| 1 carat = 0.20 grams              | 1 gram = 5 carats                | 1 carat = 4 grainers        | 1 inch = 2.54 centimetres |
| 1 troy ounce (oz) = 31.1035 grams | 1 kilogram (kg) = 32.1507 ounces | 1 centimetre = 0.394 inches |                           |

## Metal melting points

| Metal             | Melting point (°C) | Metal       | Melting point (°C) | Metal           | Melting point (°C) |
|-------------------|--------------------|-------------|--------------------|-----------------|--------------------|
| Silver - sterling | 893                | Gold - 9ct  | 800 - 960          | Gold - pure     | 1063               |
| Silver - pure     | 961                | Gold - 14ct | 850 - 920          | Platinum - pure | 1769               |
|                   |                    | Gold - 18ct | 990 - 1030         |                 |                    |

## Wedding anniversary gifts

| Traditional                          |                                  |  |                                      | Modern                      |                                    |  |  |
|--------------------------------------|----------------------------------|--|--------------------------------------|-----------------------------|------------------------------------|--|--|
| 1 <sup>st</sup> Paper                | 13 <sup>th</sup> Lace            | 1 <sup>st</sup> Clocks                 | 13 <sup>th</sup> Textiles, furs      | 25 <sup>th</sup> Silver     | 37 <sup>th</sup> Alabaster         |  |  |
| 2 <sup>nd</sup> Cotton               | 14 <sup>th</sup> Ivory           | 2 <sup>nd</sup> China                  | 14 <sup>th</sup> Gold jewellery      | 26 <sup>th</sup> Pictures   | 38 <sup>th</sup> Beryl, tourmaline |  |  |
| 3 <sup>rd</sup> Leather              | 15 <sup>th</sup> Crystal         | 3 <sup>rd</sup> Crystal, glass         | 15 <sup>th</sup> Watches             | 27 <sup>th</sup> Sculpture  | 39 <sup>th</sup> Lace              |  |  |
| 4 <sup>th</sup> Fruit, flowers, silk | 20 <sup>th</sup> China           | 4 <sup>th</sup> Appliances             | 16 <sup>th</sup> Silver holloware    | 28 <sup>th</sup> Orchids    | 40 <sup>th</sup> Ruby              |  |  |
| 5 <sup>th</sup> Wood                 | 25 <sup>th</sup> Silver          | 5 <sup>th</sup> Silverware             | 17 <sup>th</sup> Furniture           | 29 <sup>th</sup> Furniture  | 45 <sup>th</sup> Sapphire          |  |  |
| 6 <sup>th</sup> Iron, sugar, sweets  | 30 <sup>th</sup> Pearl           | 6 <sup>th</sup> Sweets, iron, wood     | 18 <sup>th</sup> Porcelain           | 30 <sup>th</sup> Diamond    | 50 <sup>th</sup> Gold jewellery    |  |  |
| 7 <sup>th</sup> Wood, copper         | 35 <sup>th</sup> Coral, platinum | 7 <sup>th</sup> Desk sets              | 19 <sup>th</sup> Bronze              | 31 <sup>st</sup> Timepieces | 55 <sup>th</sup> Emerald           |  |  |
| 8 <sup>th</sup> Bronze, pottery      | 40 <sup>th</sup> Ruby            | 8 <sup>th</sup> Bronze, pottery        | 20 <sup>th</sup> Platinum            | 32 <sup>nd</sup> Vehicle    | 60 <sup>th</sup> Diamond           |  |  |
| 9 <sup>th</sup> Willow, pottery      | 45 <sup>th</sup> Sapphire        | 9 <sup>th</sup> Linen, lace            | 21 <sup>st</sup> Brass, nickel       | 33 <sup>rd</sup> Amethyst   |                                    |  |  |
| 10 <sup>th</sup> Tin, aluminium      | 50 <sup>th</sup> Gold            | 10 <sup>th</sup> Leather               | 22 <sup>nd</sup> Copper              | 34 <sup>th</sup> Opal       |                                    |  |  |
| 11 <sup>th</sup> Steel               | 55 <sup>th</sup> Emerald         | 11 <sup>th</sup> Jewellery             | 23 <sup>rd</sup> Silver plate        | 35 <sup>th</sup> Jade       |                                    |  |  |
| 12 <sup>th</sup> Silk, linen         | 60 <sup>th</sup> Diamond         | 12 <sup>th</sup> Pearls, coloured gems | 24 <sup>th</sup> Musical instruments | 36 <sup>th</sup> Bone china |                                    |  |  |