

WEDDING RING METAL PROPERTIES

PLATINUM



Usually 95% platinum; iridium, ruthenium and palladium are common alloying metals.

HARDNESS (0-10) 4.0-4.5

DENSITY (g/cm³) 21.45

MELTING POINT (°C) 1768

VALUE ££££

RESIZEABLE? Yes

PALLADIUM



Usually 95% palladium. Other metals make up the remaining 5%, commonly ruthenium.

HARDNESS (0-10) 4.8

DENSITY (g/cm³) 12.02

MELTING POINT (°C) 1555

VALUE £££

RESIZEABLE? Yes

WHITE GOLD



Commonly an alloy of gold and palladium (or platinum), plated with rhodium.

HARDNESS (0-10) 2.5-4.0

DENSITY (g/cm³) 14.64

MELTING POINT (°C) 943

VALUE £££

RESIZEABLE? Yes

YELLOW GOLD



An alloy of gold with smaller amounts of copper and silver.

HARDNESS (0-10) 2.5-4.0

DENSITY (g/cm³) 15.58

MELTING POINT (°C) 927

VALUE £££

RESIZEABLE? Yes

ROSE GOLD



An alloy of gold and copper, with smaller amounts of silver.

HARDNESS (0-10) 2.5-4.0

DENSITY (g/cm³) 15.18

MELTING POINT (°C) 902

VALUE £££

RESIZEABLE? Yes

STERLING SILVER



Sterling silver must contain 92.5% silver. The remainder is other metals, usually copper.

HARDNESS (0-10) 2.5-3.0

DENSITY (g/cm³) 10.36

MELTING POINT (°C) 893

VALUE ££

RESIZEABLE? Yes

TITANIUM



Commonly made from a blend of titanium, vanadium and aluminium.

HARDNESS (0-10) 6.0

DENSITY (g/cm³) 4.506

MELTING POINT (°C) 1668

VALUE £

RESIZEABLE? No

BLACK ZIRCONIUM



Made by oxidising zirconium to produce a black coating of zirconium oxide.

HARDNESS (0-10) 7.5-8.0

DENSITY (g/cm³) 5.680

MELTING POINT (°C) 2715

VALUE £

RESIZEABLE? No

TUNGSTEN CARBIDE



Alloyed with small amounts of cobalt so that the rings can be more easily shaped.

HARDNESS (0-10) 8.5-9.0

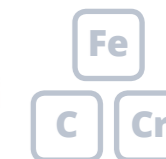
DENSITY (g/cm³) 15.63

MELTING POINT (°C) 2870

VALUE £

RESIZEABLE? No

STAINLESS STEEL



An alloy of iron, carbon and other elements. Stainless steel contains min. 10.5% chromium.

HARDNESS (0-10) 5.0-6.5

DENSITY (g/cm³) 8.050

MELTING POINT (°C) 1370

VALUE £

RESIZEABLE? No

