



Gallorini
master of alloys

Products Catalogue

master alloys and soldering
powders for goldsmith and
silversmith

GALLORINI S.N.C

was born in Tuscany, Arezzo, known as the city of gold, which boasts a well-known past in the field of jewelry and processing of gold.

It was founded in 2007 by Stefano Gallorini, who thanks to its thirty-year experience in goldsmith managed to create a company, that today is known in all over the world, conveying his knowledge and his passion for this work to his sons Carlo and Luca, who today took the helm of the company.



PRODUCTION

We use medium frequency inductive machines, that prevent the risk of contamination by combustion products typical of gas furnaces ensuring homogeneity and purity of the final product. When necessary the alloys are protected with reductive flames and a thin layer of boric acid. The quality of the air in the laboratory is another important factor, the humidity is kept under 30% by our air-conditioning system.



THE ALLOYS

Our catalogue counts over 500 different kinds of recipes, including bronze, brass, alpaca, red yellow and white gold, silver applications alloys and soldering alloys for gold and silver. To prevent the risk of silicon contamination we separate the production of alloys with and without silicon. Crucibles and all other parts that come into contact with the molten metal are separated in silicon and siliconless.



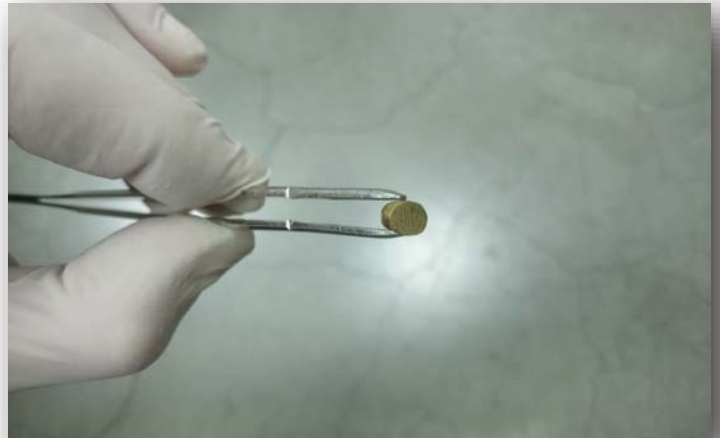
CONTROL OF RAW MATERIALS

All our production starts from elements of the highest quality. The raw materials come from trusted suppliers, who provide us **quality certificates**, furthermore a security check on **XRF machine** is made inside our factory for each incoming batch. Among our collaborators are the best equipped, well-known local producers and analytical laboratories, which provide us **ICP analysis** if necessary.



QUALITY CONTROL

All steps of the production cycle are carefully monitored. Every incoming order is divided in several loads of 50-60Kg each and since alloying the metals is the most important step, for every melt a random grain of alloy is analyzed by XRF in the core and stored, with a batch number, in our factory for at least two year.



PASSION, continuous research and studies

on elements thanks to the latest generation equipment at our disposal allow us to make constant updates and follow the latest news. We are always happy to offer consulting and technical support that distinguish us from our competitors. One of the most important goals of our company is to satisfy the demands of our clients, customizing alloys and powders, in order to create a perfect final product completely made in Italy.






CATALOGUE SHORT GUIDE

ALLOYS AND SOLDERS APPLICATION

MECHANICAL WORKS

- | | | |
|-----------------------|---|--|
| Plates |  | recommended for plates and sheets production, for stamped articles |
| Solid chains |  | recommended for wire and solid chain production |
| Hollow chains |  | recommended for hollow jewellery production especially for “aggraffato” chains |
| Soldered tubes |  | recommended for profiled soldered tubes made from plate |
| CNC & cut |  | recommended for CNC or tools cutting |
| Solder sheets |  | recommended for soldering sheets production |
| Solder wires |  | recommended for soldering wire production |

CASTING

- | | | |
|-----------------------|---|--|
| Open casting |  | recommended for casting with low/without protection from oxidation |
| Closed casting |  | recommended for closed casting systems |
| Wax setting |  | recommended for items with stones pre-placed in wax |

SOLDERING POWDERS

- | | | |
|----------|--------|---|
| Y | Yellow | Suitable for yellow gold articles soldering |
| R | Red | Suitable for red gold articles soldering |
| W | White | Suitable for white gold articles soldering |

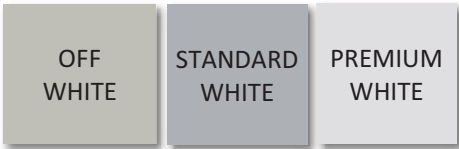
Soldering powder average granulometry: 20-25 µm

Soldering powder available granulometry: 9-15 µm (Superfine version)

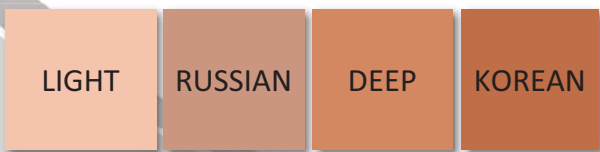
YELLOW GOLD COLOUR SHADES



WHITE GOLD COLOUR SHADES



RED GOLD COLOUR SHADES



SY 1014 DKM



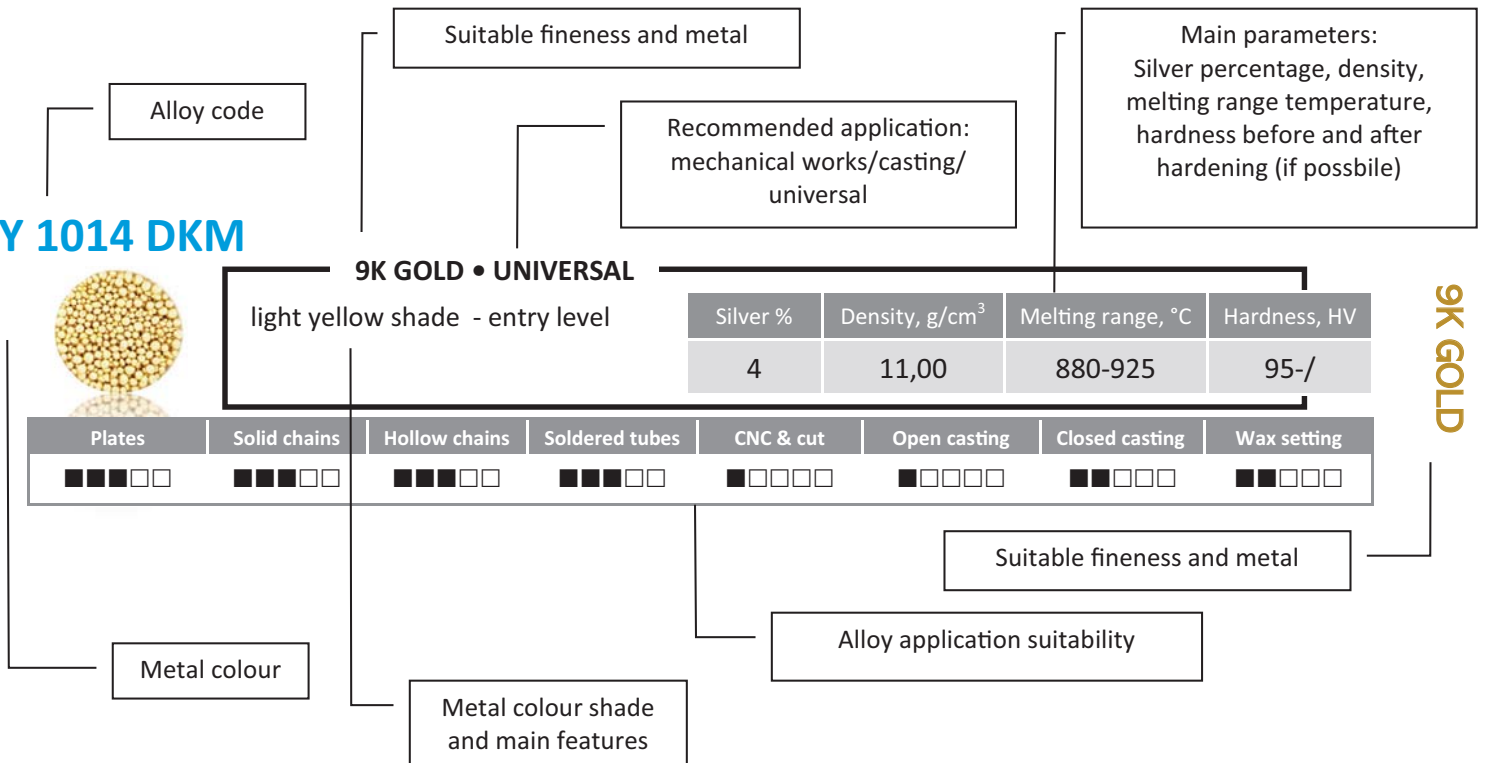
9K GOLD • UNIVERSAL

light yellow shade - entry level

| Silver % | Density, g/cm ³ | Melting range, °C | Hardness, HV |
|----------|----------------------------|-------------------|--------------|
| 4 | 11,00 | 880-925 | 95-/- |

| Plates | Solid chains | Hollow chains | Soldered tubes | CNC & cut | Open casting | Closed casting | Wax setting |
|-------------|--------------|---------------|----------------|-------------|--------------|----------------|-------------|
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9K GOLD



SSY 918 M



Solder alloy code

Suitable fineness and metal

Main parameters:
Silver percentage, density,
melting range temperature

14K GOLD • SOLDER

MEDIUM SOFT - suitable for
"aggraffato" wire

| Silver % | Density, g/cm ³ | Melting range, °C | Hardness, HV |
|----------|----------------------------|-------------------|--------------|
| 38 | 11,00 | 880-925 | 95-/- |

14K GOLD SOLDER

| Solder sheets | Solder wires | | | | | | |
|---------------|--------------|--|--|--|--|--|--|
| ■ ■ ■ ■ ■ | ■ ■ ■ ■ □ | | | | | | |

Suitable fineness, metal and colour

Solder alloy application suitability

Solder hardness and main features

S103 EVO



Soldering powder code

Soldering powder main application

SOLDERING POWDER

zinc-based soldering powder for gold - contains deoxidizers and reinforces the link

| 9K | 10K | 14K | 18K | 21/22K | AG | BRONZE | BRASS |
|----|-----|-----|-----|--------|----|--------|-------|
| W | W | YRW | YRW | □ | □ | □ | □ |

Soldering powder suitability for various metals,
colours, fineness

SY 572 P



14K GOLD • CASTING

orange shade - small grain size -
deoxidizing action

| Silver % | Density, g/cm ³ | Melting range, °C | Hardness, HV |
|----------|----------------------------|-------------------|--------------|
| 30 | 12,90 | 825-870 | 150-180 |

| Plates | Solid chains | Hollow chains | Soldered tubes | CNC & cut | Open casting | Closed casting | Wax setting |
|--------|--------------|---------------|----------------|-----------|--------------|----------------|-------------|
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SY 574 R



18K GOLD • UNIVERSAL

orange shade - small grain size

| Silver % | Density, g/cm ³ | Melting range, °C | Hardness, HV |
|----------|----------------------------|-------------------|--------------|
| 16 | 14,80 | 865-885 | 190-300 |

| Plates | Solid chains | Hollow chains | Soldered tubes | CNC & cut | Open casting | Closed casting | Wax setting |
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SY 572 R



18K GOLD • UNIVERSAL

rich yellow shade - small grain size

| Silver % | Density, g/cm ³ | Melting range, °C | Hardness, HV |
|----------|----------------------------|-------------------|--------------|
| 36 | 15,00 | 865-885 | 155-250 |

| Plates | Solid chains | Hollow chains | Soldered tubes | CNC & cut | Open casting | Closed casting | Wax setting |
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SY 18 420



18K GOLD • UNIVERSAL

rich yellow shade - shining surface

| Silver % | Density, g/cm ³ | Melting range, °C | Hardness, HV |
|----------|----------------------------|-------------------|--------------|
| 42 | 15,10 | 860-875 | 170-270 |

| Plates | Solid chains | Hollow chains | Soldered tubes | CNC & cut | Open casting | Closed casting | Wax setting |
|--------|--------------|---------------|----------------|-----------|--------------|----------------|-------------|
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SY 452 R



18K GOLD • UNIVERSAL

light yellow shade - small grain size

| Silver % | Density, g/cm ³ | Melting range, °C | Hardness, HV |
|----------|----------------------------|-------------------|--------------|
| 45 | 15,17 | 849-867 | 158-240 |

| Plates | Solid chains | Hollow chains | Soldered tubes | CNC & cut | Open casting | Closed casting | Wax setting |
|--------|--------------|---------------|----------------|-----------|--------------|----------------|-------------|
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SF 201 Y



18K GOLD • UNIVERSAL

3N - rich yellow shade - small grain
size - shining surface

| Silver % | Density, g/cm ³ | Melting range, °C | Hardness, HV |
|----------|----------------------------|-------------------|--------------|
| 46,2 | 15,10 | 860-895 | 130-250 |

| Plates | Solid chains | Hollow chains | Soldered tubes | CNC & cut | Open casting | Closed casting | Wax setting |
|--------|--------------|---------------|----------------|-----------|--------------|----------------|-------------|
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SY 18H 3N



18K GOLD • UNIVERSAL

3N - rich yellow shade - small grain size

| Silver % | Density, g/cm ³ | Melting range, °C | Hardness, HV |
|----------|----------------------------|-------------------|--------------|
| 47 | 15,25 | 876-885 | 151-255 |

| Plates | Solid chains | Hollow chains | Soldered tubes | CNC & cut | Open casting | Closed casting | Wax setting |
|--------|--------------|---------------|----------------|-----------|--------------|----------------|-------------|
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SY 050 S



18K GOLD • UNIVERSAL

light yellow shade - small grain size - shining surface

| Silver % | Density, g/cm ³ | Melting range, °C | Hardness, HV |
|----------|----------------------------|-------------------|--------------|
| 54 | 15,25 | 875-895 | 135-220 |

| Plates | Solid chains | Hollow chains | Soldered tubes | CNC & cut | Open casting | Closed casting | Wax setting |
|--------|--------------|---------------|----------------|-----------|--------------|----------------|-------------|
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SY 18 HZ



18K GOLD • UNIVERSAL

2N - light yellow shade - small grain size

| Silver % | Density, g/cm ³ | Melting range, °C | Hardness, HV |
|----------|----------------------------|-------------------|--------------|
| 56,5 | 15,35 | 876-897 | 138-215 |

| Plates | Solid chains | Hollow chains | Soldered tubes | CNC & cut | Open casting | Closed casting | Wax setting |
|--------|--------------|---------------|----------------|-----------|--------------|----------------|-------------|
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SF 202 Y



18K GOLD • UNIVERSAL

2N - light yellow shade - small grain size - shining surface

| Silver % | Density, g/cm ³ | Melting range, °C | Hardness, HV |
|----------|----------------------------|-------------------|--------------|
| 57 | 15,00 | 860-910 | 130-175 |

| Plates | Solid chains | Hollow chains | Soldered tubes | CNC & cut | Open casting | Closed casting | Wax setting |
|--------|--------------|---------------|----------------|-----------|--------------|----------------|-------------|
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SY 456 R



18K GOLD • UNIVERSAL

green shade - small grain size

| Silver % | Density, g/cm ³ | Melting range, °C | Hardness, HV |
|----------|----------------------------|-------------------|--------------|
| 64 | 15,44 | 888-912 | 125-/- |

| Plates | Solid chains | Hollow chains | Soldered tubes | CNC & cut | Open casting | Closed casting | Wax setting |
|--------|--------------|---------------|----------------|-----------|--------------|----------------|-------------|
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SY 18 H31



18K GOLD • MECHANICAL

rich yellow shade - small grain size

| Silver % | Density, g/cm ³ | Melting range, °C | Hardness, HV |
|----------|----------------------------|-------------------|--------------|
| 31 | 15,00 | 852-864 | 155-280 |

| Plates | Solid chains | Hollow chains | Soldered tubes | CNC & cut | Open casting | Closed casting | Wax setting |
|--------|--------------|---------------|----------------|-----------|--------------|----------------|-------------|
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SY 18 H



18K GOLD • MECHANICAL

rich yellow shade - entry level

| Silver % | Density, g/cm ³ | Melting range, °C | Hardness, HV |
|----------|----------------------------|-------------------|--------------|
| 31,8 | 15,00 | 855-870 | 155-280 |

| Plates | Solid chains | Hollow chains | Soldered tubes | CNC & cut | Open casting | Closed casting | Wax setting |
|--------|--------------|---------------|----------------|-----------|--------------|----------------|-------------|
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SF 221 Y



18K GOLD • MECHANICAL

rich yellow shade - small grain size - shining surface

| Silver % | Density, g/cm ³ | Melting range, °C | Hardness, HV |
|----------|----------------------------|-------------------|--------------|
| 35 | 15,00 | 850-865 | 175-255 |

| Plates | Solid chains | Hollow chains | Soldered tubes | CNC & cut | Open casting | Closed casting | Wax setting |
|--------|--------------|---------------|----------------|-----------|--------------|----------------|-------------|
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SY 18 RY



18K GOLD • MECHANICAL

rich yellow shade - entry level

| Silver % | Density, g/cm ³ | Melting range, °C | Hardness, HV |
|----------|----------------------------|-------------------|--------------|
| 35 | 15,00 | 845-860 | 155-250 |

| Plates | Solid chains | Hollow chains | Soldered tubes | CNC & cut | Open casting | Closed casting | Wax setting |
|--------|--------------|---------------|----------------|-----------|--------------|----------------|-------------|
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SY 18 H 35 DKM



18K GOLD • MECHANICAL

rich yellow shade - shining surface

| Silver % | Density, g/cm ³ | Melting range, °C | Hardness, HV |
|----------|----------------------------|-------------------|--------------|
| 35 | 15,00 | 850-865 | 175-275 |

| Plates | Solid chains | Hollow chains | Soldered tubes | CNC & cut | Open casting | Closed casting | Wax setting |
|--------|--------------|---------------|----------------|-----------|--------------|----------------|-------------|
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SY 18 42 H



18K GOLD • MECHANICAL

light yellow shade - shining surface

| Silver % | Density, g/cm ³ | Melting range, °C | Hardness, HV |
|----------|----------------------------|-------------------|--------------|
| 42 | 15,20 | 850-870 | 140-240 |

| Plates | Solid chains | Hollow chains | Soldered tubes | CNC & cut | Open casting | Closed casting | Wax setting |
|--------|--------------|---------------|----------------|-----------|--------------|----------------|-------------|
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SY 18 490 H



18K GOLD • MECHANICAL

light yellow shade - entry level

| Silver % | Density, g/cm ³ | Melting range, °C | Hardness, HV |
|----------|----------------------------|-------------------|--------------|
| 49 | 15,20 | 865-885 | 145-260 |

| Plates | Solid chains | Hollow chains | Soldered tubes | CNC & cut | Open casting | Closed casting | Wax setting |
|--------|--------------|---------------|----------------|-----------|--------------|----------------|-------------|
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SY 18 H ZH



18K GOLD • MECHANICAL

light yellow shade - small grain size

| Silver % | Density, g/cm ³ | Melting range, °C | Hardness, HV |
|----------|----------------------------|-------------------|--------------|
| 52 | 15,20 | 880-890 | 140-245 |

| Plates | Solid chains | Hollow chains | Soldered tubes | CNC & cut | Open casting | Closed casting | Wax setting |
|--------|--------------|---------------|----------------|-----------|--------------|----------------|-------------|
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SY 574 P



18K GOLD • CASTING

orange shade - small grain size -
deoxidizing action

| Silver % | Density, g/cm ³ | Melting range, °C | Hardness, HV |
|----------|----------------------------|-------------------|--------------|
| 16 | 15,00 | 860-890 | 180-280 |

| Plates | Solid chains | Hollow chains | Soldered tubes | CNC & cut | Open casting | Closed casting | Wax setting |
|--------|--------------|---------------|----------------|-----------|--------------|----------------|-------------|
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SY 572 P



18K GOLD • CASTING

orange shade - small grain size -
deoxidizing action

| Silver % | Density, g/cm ³ | Melting range, °C | Hardness, HV |
|----------|----------------------------|-------------------|--------------|
| 30 | 14,80 | 850-875 | 180-320 |

| Plates | Solid chains | Hollow chains | Soldered tubes | CNC & cut | Open casting | Closed casting | Wax setting |
|--------|--------------|---------------|----------------|-----------|--------------|----------------|-------------|
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SY 18 C 35



18K GOLD • CASTING

rich yellow shade - small grain size -
deoxidizing action - shining surface

| Silver % | Density, g/cm ³ | Melting range, °C | Hardness, HV |
|----------|----------------------------|-------------------|--------------|
| 34,7 | 14,90 | 840-865 | 170-245 |

| Plates | Solid chains | Hollow chains | Soldered tubes | CNC & cut | Open casting | Closed casting | Wax setting |
|--------|--------------|---------------|----------------|-----------|--------------|----------------|-------------|
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SY 18 C ZH



18K GOLD • CASTING

light yellow shade - small grain size
-deoxidizing action

| Silver % | Density, g/cm ³ | Melting range, °C | Hardness, HV |
|----------|----------------------------|-------------------|--------------|
| 41,5 | 15,12 | 834-869 | 152-269 |

| Plates | Solid chains | Hollow chains | Soldered tubes | CNC & cut | Open casting | Closed casting | Wax setting |
|--------|--------------|---------------|----------------|-----------|--------------|----------------|-------------|
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SY 18 418



18K GOLD • CASTING

light yellow shade - small grain size
-deoxidizing action - shining surface

| Silver % | Density, g/cm ³ | Melting range, °C | Hardness, HV |
|----------|----------------------------|-------------------|--------------|
| 41,8 | 14,90 | 880-900 | 150-240 |

| Plates | Solid chains | Hollow chains | Soldered tubes | CNC & cut | Open casting | Closed casting | Wax setting |
|--------|--------------|---------------|----------------|-----------|--------------|----------------|-------------|
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SY 18 43 C



18K GOLD • CASTING

light yellow shade - deoxidizing action

| Silver % | Density, g/cm ³ | Melting range, °C | Hardness, HV |
|----------|----------------------------|-------------------|--------------|
| 43 | 15,10 | 825-865 | 140-250 |

| Plates | Solid chains | Hollow chains | Soldered tubes | CNC & cut | Open casting | Closed casting | Wax setting |
|--------|--------------|---------------|----------------|-----------|--------------|----------------|-------------|
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SF 322 Y



18K GOLD • CASTING

light yellow shade - small grain size
deoxidizing action - shining surface

| Silver % | Density, g/cm ³ | Melting range, °C | Hardness, HV |
|----------|----------------------------|-------------------|--------------|
| 47 | 15,10 | 845-870 | 150-240 |

| Plates | Solid chains | Hollow chains | Soldered tubes | CNC & cut | Open casting | Closed casting | Wax setting |
|--------|--------------|---------------|----------------|-----------|--------------|----------------|-------------|
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SY 18C 3N



18K GOLD • CASTING

3N - rich yellow shade - deoxidizing action

| Silver % | Density, g/cm ³ | Melting range, °C | Hardness, HV |
|----------|----------------------------|-------------------|--------------|
| 47 | 15,18 | 821-884 | 151-265 |

| Plates | Solid chains | Hollow chains | Soldered tubes | CNC & cut | Open casting | Closed casting | Wax setting |
|--------|--------------|---------------|----------------|-----------|--------------|----------------|-------------|
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SF 301 Y



18K GOLD • CASTING

3N - rich yellow shade - small grain size
-deoxidizing action - shining

| Silver % | Density, g/cm ³ | Melting range, °C | Hardness, HV |
|----------|----------------------------|-------------------|--------------|
| 47 | 15,20 | 820-880 | 150-265 |

| Plates | Solid chains | Hollow chains | Soldered tubes | CNC & cut | Open casting | Closed casting | Wax setting |
|--------|--------------|---------------|----------------|-----------|--------------|----------------|-------------|
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SY 2N C



18K GOLD • CASTING

2N - light yellow shade -
deoxidizing action

| Silver % | Density, g/cm ³ | Melting range, °C | Hardness, HV |
|----------|----------------------------|-------------------|--------------|
| 57 | 15,31 | 871-903 | 122-230 |

| Plates | Solid chains | Hollow chains | Soldered tubes | CNC & cut | Open casting | Closed casting | Wax setting |
|--------|--------------|---------------|----------------|-----------|--------------|----------------|-------------|
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SF 302 Y



18K GOLD • CASTING

2N - light yellow shade - small grain size
-deoxidizing action - shining

| Silver % | Density, g/cm ³ | Melting range, °C | Hardness, HV |
|----------|----------------------------|-------------------|--------------|
| 57 | 14,90 | 860-910 | 130-195 |

| Plates | Solid chains | Hollow chains | Soldered tubes | CNC & cut | Open casting | Closed casting | Wax setting |
|--------|--------------|---------------|----------------|-----------|--------------|----------------|-------------|
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