



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.



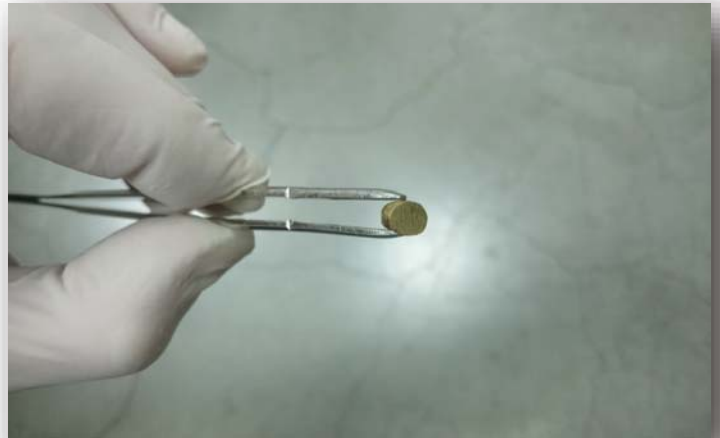
CONTROL OF RAW MATERIALS

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

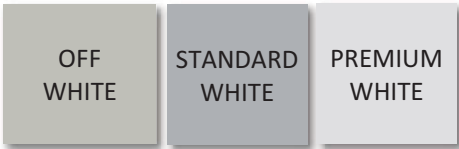
Soldering powder average granulometry: 20-25 µm

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

YELLOW GOLD COLOUR SHADES



WHITE GOLD COLOUR SHADES



RED GOLD COLOUR SHADES



SY 1014 DKM



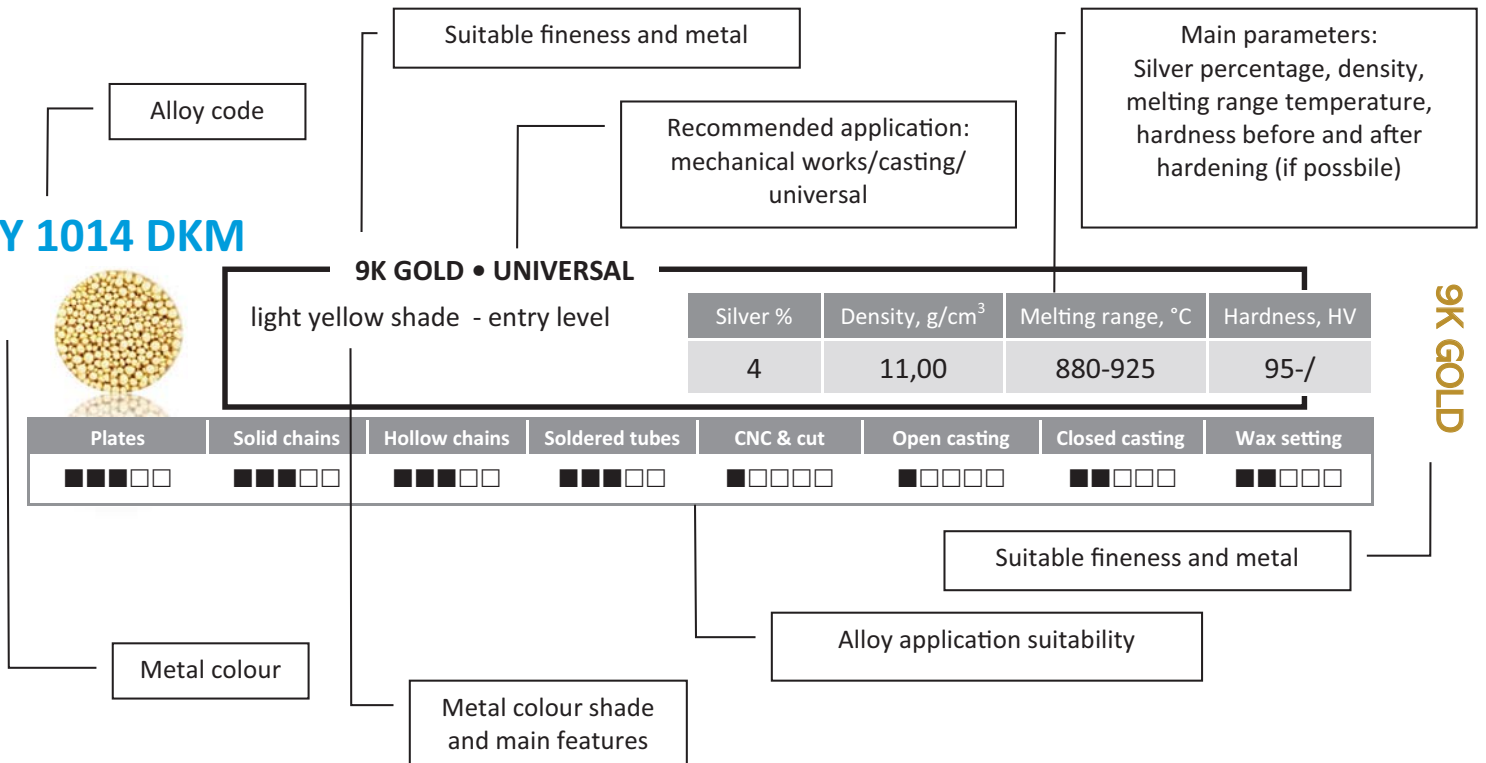
9K GOLD • UNIVERSAL

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 |
|-------------|--------------|---------------|----------------|-------------|--------------|----------------|-------------|
| ■ ■ ■ ■ □ □ | ■ ■ ■ ■ □ □ | ■ ■ ■ ■ □ □ | ■ ■ ■ ■ □ □ | ■ □ □ □ □ □ | ■ □ □ □ □ □ | ■ ■ □ □ □ □ | ■ ■ □ □ □ □ |

9K GOLD



SSY 918 M



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-/- |

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

Solder alloy code

Suitable fineness and metal

Main parameters:
Silver percentage, density,
melting range temperature

14K GOLD SOLDER

Suitable fineness, metal and colour

Solder alloy application suitability

Solder hardness and main features

S103 EVO



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 code

Soldering powder main application

Soldering powder suitability for various metals,
colours, fineness

SSR 918 H



18K GOLD • SOLDER

HARD

| Silver % | Density, g/cm ³ | Melting range, °C | Hardness, HV |
|----------|----------------------------|-------------------|--------------|
| 5 | 14,76 | 816-870 | |

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

SSAG MS



550 SILVER • SOLDER

MEDIUM

| Silver % | Density, g/cm ³ | Melting range, °C | Hardness, HV |
|----------|----------------------------|-------------------|--------------|
| / | 9,7 | 658-707 | |

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

SSAG MS



600 SILVER • SOLDER

MEDIUM-SOFT

| Silver % | Density, g/cm ³ | Melting range, °C | Hardness, HV |
|----------|----------------------------|-------------------|--------------|
| / | 9,8 | 673-718 | |

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

SSAG MS



700 SILVER • SOLDER

SOFT

| Silver % | Density, g/cm ³ | Melting range, °C | Hardness, HV |
|----------|----------------------------|-------------------|--------------|
| / | 9,9 | 703-730 | |

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

SOLDERING POWDERS AND FLUX

S103 EVO



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 | □ | □ | □ | □ |

S103



SOLDERING POWDER

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

| 9K | 10K | 14K | 18K | 21/22K | AG | BRONZE | BRASS |
|----|-----|-----|-----|--------|----|--------|-------|
| YR | YR | YR | Y | □ | ■ | □ | □ |

S101 EVO



SOLDERING POWDER

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

| 9K | 10K | 14K | 18K | 21/22K | AG | BRONZE | BRASS |
|--------------------------|--------------------------|--------------------------|-----|--------|--------------------------|--------------------------|--------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | W | Y | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

S103 AG



SOLDERING POWDER

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

| 9K | 10K | 14K | 18K | 21/22K | AG | BRONZE | BRASS |
|--------------------------|-----|-----|-----|--------|--------------------------|--------------------------|--------------------------|
| <input type="checkbox"/> | YW | YW | YW | Y | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

S113



SOLDERING POWDER

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

| 9K | 10K | 14K | 18K | 21/22K | AG | BRONZE | BRASS |
|--------------------------|-----|-----|-----|--------------------------|--------------------------|--------------------------|--------------------------|
| <input type="checkbox"/> | R | R | R | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

S123



SOLDERING POWDER

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

| 9K | 10K | 14K | 18K | 21/22K | AG | BRONZE | BRASS |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|-------------------------------------|--------------------------|--------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

S103 OT



SOLDERING POWDER

zinc-based soldering powder for silver & brass - contains deoxidizers and reinforces the link

| 9K | 10K | 14K | 18K | 21/22K | AG | BRONZE | BRASS |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|-------------------------------------|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

S103 BR



SOLDERING POWDER

zinc-based soldering powder for silver & bronze - contains deoxidizers and reinforces the link

| 9K | 10K | 14K | 18K | 21/22K | AG | BRONZE | BRASS |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|-------------------------------------|-------------------------------------|--------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

SXX



FLUX POWDER

improves the flow of the melted soldering alloys - can be used in powder for the manual soldering - can be used as a liquid flux for hollow chains

| 9K | 10K | 14K | 18K | 21/22K | AG | BRONZE | BRASS |
|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |

S720



FLUX POWDER

powder for hollow chains - deoxidizing action

| 9K | 10K | 14K | 18K | 21/22K | AG | BRONZE | BRASS |
|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |



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ALLOYS • POWDERS • TECHNOLOGY

www.gallorini.it