Gold Plating

Pioneer METAL FINISHING

RECEPTIVE METALS

Aluminum Alloy
Brass
Bronze
Copper
Stainless Steel
Steel
Zinc Die Cast

THICKNESS

.00001" - .0001"
10-100 µin.

MAX PART SIZE

Hard Gold 12"x12"x12"
Soft Gold 12"x12"x6"
35 lbs or less

STANDARD SPECIFICATIONS

MIL-DTL-45204 Type I, II, III
ASTM B488 Type I, II, III
AMS 2422
RoHS, REACH, ELV
and WEEE Compliant

PROCESS LOCATIONS

Portland

CONTACT US

Sales
800-944-7634
Sales@
pioneermetal.com
RFQ@
pioneermetal.com

GOLD PLATING

Gold plating is an electrolytic plating process that deposits gold onto a substrate. Gold plating is often used in the electronics industry for its conductivity and long term corrosion resistance.

PIONEER SOLUTIONS

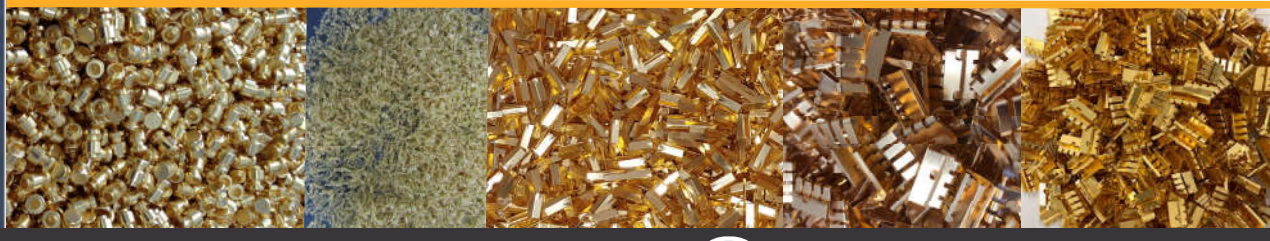
Type I Hard Gold 99.7% gold purity, Hardness 130-200HK
Type II Hard Gold 99.0% gold purity, Hardness 130-200HK
Type III Soft Gold 99.9% gold purity, 90 HK max

Code A: 90 HK25
Code C: 130-200 HK25

PERFORMANCE BENEFITS

√ Corrosion Resistance
√ Heat Resistance for Type III
√ Hard Gold Used for Some Wear Resistance/Functional Properties
√ Excellent Solderability
√ Conductive Plating
√ Cosmetic/Jewelry/Bright Finish
√ Gold Contacts Should not be Mated to Tin Contacts

COMMON APPLICATIONS

√ Type I: High Reliable Electrical Contacts
√ Type II: Wear Resistance (Hard) and Cosmetic Jewelry
√ Type III: Semiconductor Components, Nuclear Engineering, Thermosonic Bonding, Ultrasonic Bonding, Solderability, High Temperature Exposure

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