GOLD EXPRESS USA

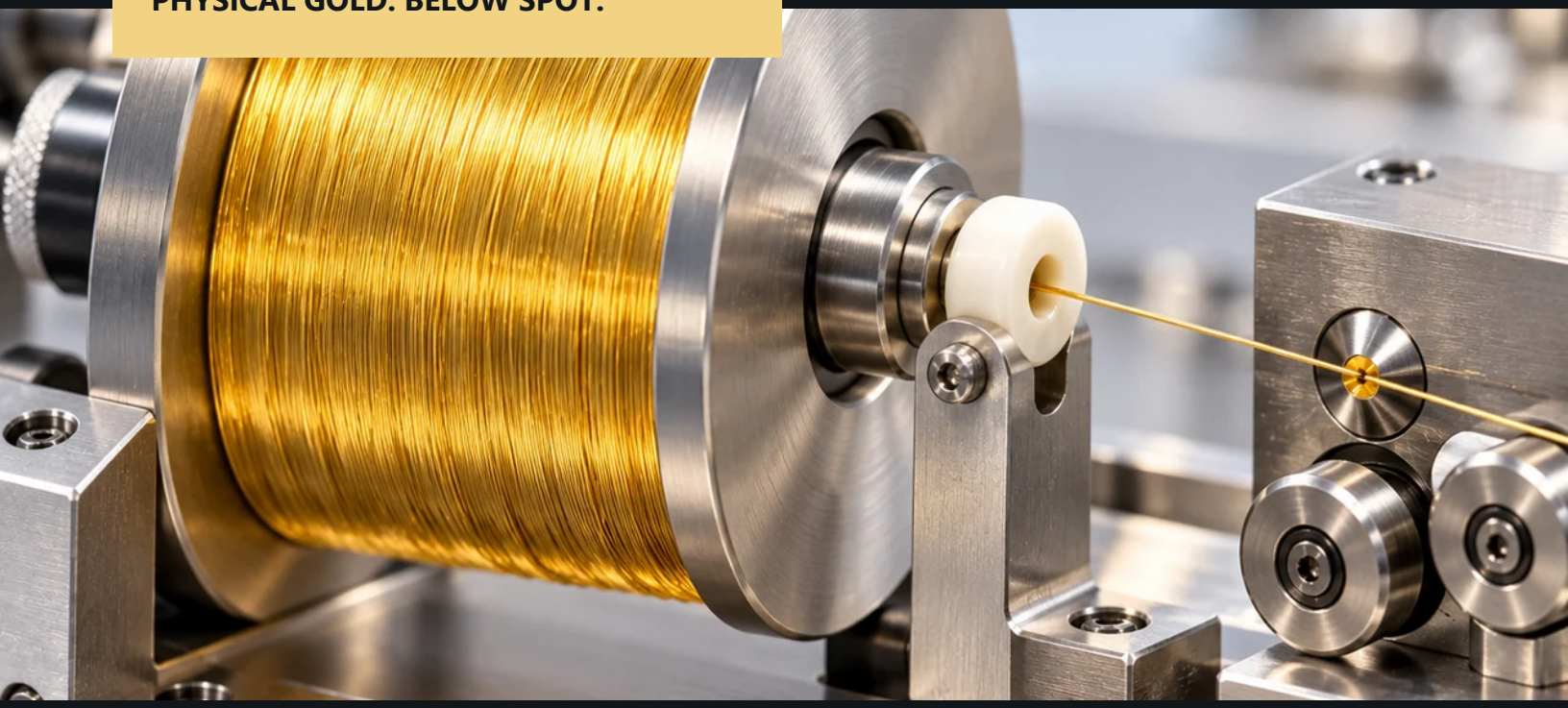
THE GOLD EXPRESS USA KNOWLEDGE SERIES

GUIDE 03 / COMMERCIAL & INDUSTRIAL BUYERS

From Bullion To Production.

A sourcing guide for manufacturers, fabricators and commercial procurement teams.

PHYSICAL GOLD. BELOW SPOT.

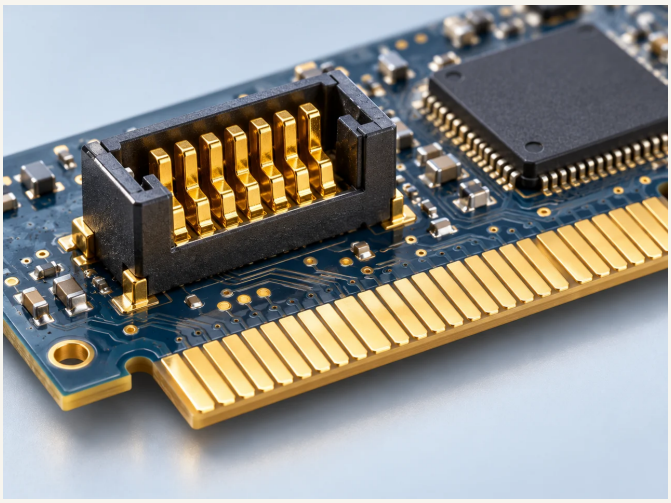


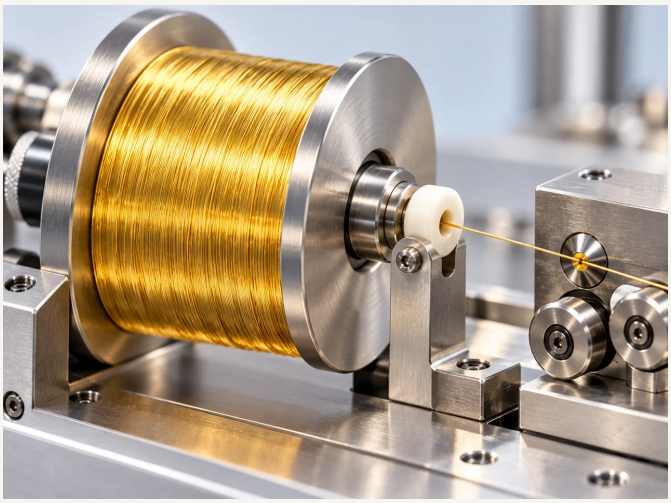
SPECIFICATIONS / QUALIFICATION / COST / SUPPLY

01 / GOLD AS A MATERIAL

Start With The Application.

Gold can be a functional production input. The downstream process determines which bullion, intermediate or finished material is acceptable.





ELECTRONICS

Selected contacts and interconnects

Gold is used in selected contact surfaces and fine connections where chemical stability and reliability matter. Material choice remains application-specific.

WIRE & PACKAGING

An engineered product

Gold and gold-alloy bonding wire connect semiconductor chips to external circuitry. Wire diameter, composition, surface quality and the bonding process all matter.

AMETEK identifies gold bonding wire among materials used for AI data-center interconnects. Gold Express USA reports supplying a buyer that makes gold wire for data-center applications. These examples do not establish suitability for your process or imply a relationship with the referenced manufacturers.

READ MORE TANAKA AI

02 / PROCUREMENT SPECIFICATION

A Purity Mark Is Not A Specification.

Translate the production requirement into a written input specification before comparing suppliers.

SPECIFY	DEFINE WITH THE PROCESS OWNER
Composition	Required gold fineness, permitted impurities and element-specific limits.
Input form	Acceptable bar form, size, condition and restrictions imposed by the processor.
Qualification	Approved producer criteria, assay method, sampling plan and lot acceptance.
Traceability	Lot identifiers, production information, assay evidence and custody records.
Commercial basis	Fine-gold pricing, delivery schedule, verification costs and rejection handling.

THE CURRENT OFFERED GRADE

Gold Express USA offers 99.9% bullion from an LBMA Good Delivery listed refiner. A manufacturer may need higher purity, different impurity limits or further refining. Confirm the exact requirement with the responsible technical team.

READ MORE TANAKA LBMAFAQ

03 / THE MATERIAL PATH

Refiner To Qualified Component.

Bullion is a material input. Further processing and qualification may be needed before it becomes a production-ready wire or component.

01 **Source.** Identify the metal, producer, lot, gross and fine weight, and supporting assay evidence.

02 **Prepare.** The processor determines whether refining, alloying or another preparation step is required.

03 **Fabricate.** An approved manufacturer carries out the relevant forming, wire drawing, heat treatment, coating or other process.

04 **Qualify.** Validate the output against the application requirements. Agree sampling, testing, release and rejection responsibilities.

AGREE THE MASS BALANCE

Identify who owns the metal in process, how scrap and returns are recorded, what yield is expected, and who bears losses or rejected material. Avoid treating a nominal bar weight as guaranteed usable output.

READ MORE PROCESS TANAKA

04 / QUANTITY & ECONOMICS

Buy For The Usable Requirement.

Price per kilogram is only part of the procurement decision. Separate gross weight, fine weight, process yield and the total cost of accepted material.

ILLUSTRATIVE PLANNING EXAMPLE

INPUT / OUTPUT	EXAMPLE
Gross bullion input	10.000 kg
Gold purity	99.9%
Fine-gold input	9.990 kg
Assumed usable yield	98% of fine input
Usable fine-gold output	9.7902 kg
Gross input for 10 kg usable output	Approximately 10.2143 kg

COST PER ACCEPTED UNIT

Combine metal, refining or fabrication, verification, transport, insurance, financing and expected unrecovered losses. Divide by accepted usable output on the same unit basis.

The 98% yield illustrates the calculation; it is not an industry benchmark or a Gold Express USA performance claim. Your process owner must supply the actual yield, recoverable-scrap treatment and acceptance basis.

READ MORE NIST

05 / QUALITY & CONTINUITY

Qualify The Lot And The Handoff.

Commercial supply needs a documented acceptance process and a workable release schedule.

01 **Before purchase.** Agree the technical specification, assay evidence, required documents and who has final acceptance authority.

02 **At verification.** Reconcile the identified lot with weight, purity and documentation. Record deviations before an approval or release.

03 **During transfer.** Confirm custody, receiving location, transport responsibilities, insurance and the point where ownership and risk pass.

04 **At receipt.** Apply the agreed incoming inspection and lot acceptance plan. Document a discrepancy, quarantine or rejection path.

05 **For recurring supply.** Align purchase timing with consumption, inventory limits, release quantities, price validity and the consequences of delay.

LBMA STATUS AND PROCESS APPROVAL

A listed refiner provides a recognized sourcing reference. It does not replace your material specification, lot testing or finished-product validation. Approve the metal against the process, not against a marketing phrase.

READ MORE LBMA RSP

06 / YOUR INDUSTRIAL RFQ

Give Procurement A Better Brief.

Use this worksheet to bring purchasing, finance and the responsible technical team into the same conversation.

APPLICATION + PROCESSOR

Manufacturing step, downstream processor and contact

COMPOSITION + INPUT FORM

Purity, impurity limits, bar format and approved producer criteria

QUANTITY + SCHEDULE

Initial volume, ongoing consumption and required release dates

ACCEPTANCE + TRACEABILITY

Assay, sampling, documentation, lot identifiers and rejection plan

COSTS + RESPONSIBILITIES

Pricing reference, processing, yield, scrap, custody and settlement

Attach the specification, not assumptions. Ask the processor to identify any grade mismatch before an order is placed. Send sensitive identity or financial documents only through an agreed secure process.

YOUR NEXT STEP

Source For Your Actual Process.

Send your quantity, specification, timeline and intended use. Gold Express USA will discuss the offered bullion against your documented requirement.

BELOW-SPOT GOLD. A PERSONAL QUOTE.

Gold Express USA sources its offered bullion from an LBMA Good Delivery listed refiner. Ounce, kilogram and bulk requirements are discussed individually.

SALES@GOLDEXPRESSUSA.COM

Visit the live gold market and request a quote

PRIMARY SOURCES & FURTHER READING

01 **TANAKA | Bonding wires and material options**
tanaka-preciousmetals.com / Open reference

02 **TANAKA | Precious metal wire processing**
tanaka-preciousmetals.com / Open reference

03 **AMETEK | Materials for AI data centers**
www.ametekmetals.com / Open reference

04 **LBMA | Good Delivery FAQs**
www.lbma.org.uk / Open reference

05 **NIST | Precious metals conversion information**
www.nist.gov / Open reference

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