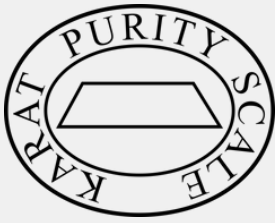




# KPS<sup>TM</sup> Consumer Guide

PREPARED BY

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# Introduction: Why Purity Needs Clarity

Purity matters. It has for thousands of years. Yet today's systems are confusing: 24k gold, 999 silver, 950 platinum, and copper left in the shadows. The Karat Purity Scale (KPS™) brings all metals into one transparent, universal system: 0–24, one number, globally understandable.

## The Legacy of Confusion

- Gold: Measured in karats (24k = pure, 18k = 75%).
- Silver: Measured in millesimal fineness (925 = 92.5%).
- Platinum/Palladium: Often expressed as 950, 999.
- Copper: Rarely purity-stamped for consumers, despite its central role in trade and technology and increasingly art. More and more frequently Art bars and Bullion.

Result: buyers are confused, markets inefficient, and some metals undervalued in perception.

## The KPS™ Formula and Principles

The Formula:

$$\text{KPS} = (\% \text{ purity} \times 24) \div 100$$

Design Principles:

- Universality: Works for all metals.
- Simplicity: Single 0–24 scale.
- Continuity: Rooted in gold's 24k tradition.
- Transparency: Published tolerances ( $\pm 0.10$  /  $\pm 0.05$ ).



# Universal Conversion Tables

## Gold: Karats to KPS™

Karat	% Purity	KPS™ Value
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24k	99.9%	24
22k	91.6%	22
18k	75.0%	18
14k	58.5%	14
9k	37.5%	9

## Silver: Fineness to KPS™

Mark	% Purity	KPS™ Value
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999	99.9%	24
958	95.8%	23
925	92.5%	22
800	80.0%	19

## Silver: Fineness to KPS™

Mark	% Purity	KPS™ Value
------	----------	------------

999	99.9%	24
958	95.8%	23
925	92.5%	22
800	80.0%	19

## Copper: Fineness to KPS™

Type	% Purity	KPS™ Value
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Oxygen-Free High Conduct.	99.99%	24
Electrolytic Tough Pitch	99.90%	24
Commercial Pure Copper	99.00%	24
Alloyed Copper	95.00%	23



## Tolerance Standards

- Jewellery Grade:  $\pm 0.10$  KPS
- Investment Grade:  $\pm 0.05$  KPS

This reflects real-world assay and minting variances, adapted from the gold karat system but applied universally.

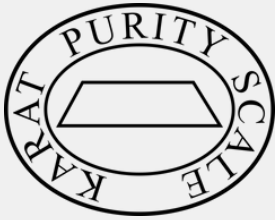
## CommonSensus™ Thinking Applied to KPS™

- CommonSensus™ = truth through evidence, not tradition.
- Challenges bias (gold “above” copper).
- Accepts history (copper purity mattered in 1750 BC).
- Seeks clarity (one number for all).
- Evolves with data (ready for digital certification)

## Case Study: The Ea-Nāšir Copper Complaint (1750 BC)

- Fact: The world’s oldest known customer complaint (British Museum).
- Details: Merchant Ea-Nāšir sold impure copper ingots to Nanni, who rejected them.
- Lesson: Purity disputes are not new; copper was already being judged for quality.

KPS Insight: Had KPS™ existed, that dispute could have been resolved transparently.



# Practical Applications of KPS™

## Jewellery Certification:

- Gold, silver, platinum hallmarks converted to KPS™.
- Consumers instantly understand relative purity.

## Bullion & Investment:

- KPS™ tolerance ensures transparent grading.
- Reduces disputes in international bullion trade.

## Industrial Metals & Sustainability:

- Copper purity critical to conductivity and carbon efficiency.
- KPS™ provides measurable ESG reporting tool.

# Future of Purity Measurement

- **Digital Certification:** KPS values embedded in blockchain or NFC tags.
- **AI-Powered Verification:** Machines reading and verifying KPS hallmarks.
- **Global Standardisation:** Adoption across jewellery, electronics, and investment markets.

# Conclusion & Call to Action

- **Purity matters. For gold, silver, copper** - for every metal. For 3,750 years, humanity has demanded fairness in trade. The Karat Purity Scale (KPS™) delivers the clarity our ancestors wanted and our future markets demand. It will be stamped alongside during the transition phase.
- **Next Step:** Download the interactive conversion charts. Adopt KPS™ alongside existing hallmarks in your trade. Join the CommonSensus™ approach to make purity clear, universal, and fair.