



Jewelry Manufacturing BOM Precious Metal & Stone Checklist 2026

Precious Metal Specification & Purity Verification

Verify the exact karatage, alloy composition, and weight of gold, silver, or platinum components against the master Bill of Materials.

Metal Type

Metal Purity/Karatage

- ☐ 24K
- ☐ 22K
- ☐ 18K
- ☐ 14K
- ☐ 10K
- ☐ 925 Sterling Silver
- ☐ Platinum

Target Weight (Grams)

Actual Measured Weight (Grams)

Assay Certificate/Lab Report



Upload File

Quality Assurance Inspector Approval

Gemstone & Loose Stone Inventory Audit

Confirm carat weight, cut, clarity, and color grades for all diamonds, rubies, sapphires, or other precious stones listed in the BOM.

Gemstone Type/Species

Total Carat Weight (ct)

Stone Grade/Clarity Grade

- ☐ Flawless
- ☐ VS1/VS2
- ☐ SI1/SI2
- ☐ I1/I2

Inspection Date

Enter date...

Gemstone Certificate/Lab Report

 Upload File

Quality Controller Approval

Metal Sourcing & Ethical Traceability

Ensure all precious metals and stones meet 2026 compliance standards for conflict-free sourcing and recycled content documentation.

Sourcing Date

Enter date...

Metal Origin Certificate Type

- ☐ Responsible Jewellery Council (RJC) Certified
- ☐ Fairmined Gold Certified
- ☐ Recycled/Reclaimed Content
- ☐ Standard Commercial Invoice

Supplier Traceability ID

Write something...

Proof of Origin Documentation

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Ethical Compliance Verifications

- ☐ Conflict-Free Verified
- ☐ OECD Due Diligence Compliant
- ☐ Environmental Impact Assessed
- ☐ Anti-Money Laundering (AML) Checked

Compliance Officer Approval

Component Dimension & Tolerance Check

Validate that all metal findings, prongs, and stone dimensions align with the technical design specifications to ensure-fitment.

Design Specification Reference ID

Write something...

Measured Component Width (mm)

Enter a number...

Measured Component Length (mm)

Enter a number...

Maximum Allowable Deviation (Tolerance mm)

Enter a number...

Dimension Status

- ☐ Within Tolerance
- ☐ Out of Tolerance
- ☐ Requires Engineering Review

Technical Blueprint or CAD Drawing Attachment

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Quality Control Inspector Approval

Consumables & Solder Alloy Compatibility

Audit the inclusion of necessary fluxes, solders, and casting grains required for the specific metal base used in the production run.

Primary Solder Type

- ☐ Hard Solder
- ☐ Medium Solder
- ☐ Easy Solder

Alloy Composition Details

Solder Weight (grams)

Required Flux Agents

- ☐ Borax-based Flux
- ☐ Acid Pickle
- ☐ Organic Flux
- ☐ Hydrochloric Acid

Material Safety Data Sheet (MSDS)

 Upload File

Quality Assurance Approval

Weight & Mass Balance Reconciliation

Compare the theoretical BOM weight against the actual weight of raw materials allocated to prevent metal loss or shrinkage discrepancies.

Theoretical BOM Metal Weight (grams)

Enter a number...

Actual Measured Metal Weight (grams)

Enter a number...

Weight Variance Percentage

Enter a number...

Variance Status

- ☐ Within Tolerance
- ☐ Exceeds Tolerance - Requires Investigation
- ☐ Critical Loss - Production Halt

Digital Scale Calibration Log

 Upload File

Production Supervisor Approval

Finishing & Plating Requirements

Verify all plating specifications (e.g., Rhodium, 18K Gold) and post-production chemical treatments listed in the assembly instructions.

Plating Type

- ☐ Rhodium
- ☐ 18K Gold
- ☐ 14K Gold
- ☐ Rose Gold
- ☐ E-Coating

Plating Thickness (Microns)

Enter a number...

Required Finishing Processes

- ☐ Polishing
- ☐ Buffing
- ☐ Sandblasting/Matte
- ☐ Acid Pickling
- ☐ Ultrasonic Cleaning

Special Finishing Instructions

Write something...

Quality Inspection Certificate

 Upload File

Supervisor Approval

Packaging & Hallmark Compliance

Ensure all mandatory hallmarking details and luxury packaging components are accounted for in the final assembly stage.

Hallmark Stamp Authentication Code

Write something...

Packaging Material Type

- ☐ Luxury Velvet Box
- ☐ Standard Cardboard Box
- ☐ Eco-friendly Recycled Pouch
- ☐ Travel Carrying Case

Compliance Inspection Date

Enter date...

Certificate of Authenticity Image

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Quality Assurance Approval

< Previous

> Next

✓ Finish

 Generate Sample Report