



## Silver Solder Product Guide

*High-Quality Alloys for Precision Brazing & Soldering*

### Precision Alloys for Superior Brazing and Joining

This guide presents a detailed overview of our range of silver solder alloys, designed for professional-grade brazing, capillary joining, and precision metalworking. These silver-based alloys are engineered for high strength, excellent fluidity, and reliable performance across a wide range of temperatures and environments.

The selection includes both bare and flux-cored variants, suitable for use in industries such as HVAC, aerospace, plumbing, electronics, automotive, and jewellery manufacturing. Each product is optimised for superior wetting action, corrosion resistance, and thermal/electrical conductivity, delivering clean, durable joints on a wide variety of base metals.

Whether you're working with copper alloys, stainless steel, or precious metals, silver solder products offer reliable results in both manual and automated brazing processes. From fine-detail assembly to structural bonding under demanding thermal loads, Weld Star silver solders are trusted by professionals for precision, productivity, and performance.

### Silver Solder 55% (L-Ag55) – Bare

#### High-Silver-Content Solder for Demanding Applications

Premium silver brazing alloy with 55% silver content, offering excellent **fluidity**, **wetting**, and **joint strength**. Ideal for critical, corrosion-resistant, and high-conductivity applications.

- **Silver Content:** 55%
- **Melting Range:** Approx. **620–760°C** (1150–1400°F)
- **Form:** **Bare wire or strip** (diameters vary)
- **Applications:**
  - Jewellery fabrication
  - Precision electronics
  - HVAC and plumbing systems
  - Aerospace assemblies
- **Suitable Base Metals:**
  - Copper, brass, bronze
  - Stainless steel
  - Precious metals
- **Notes:**
  - Requires **separate flux** for optimal performance
  - Excellent for **fine detail work** and **critical joints**





## Silver Solder 55% (L-Ag55) – Flux Cored

### Integrated Flux for Cleaner, More Efficient Brazing

Same high-performance alloy as above, but with a **flux-filled core** to simplify operation. Enhances cleaning action, reduces preparation time, and improves joint reliability.

- **Silver Content:** 55%
- **Melting Range:** Approx. **620–760°C** (1150–1400°F)
- **Form:** **Flux-cored wire** (various sizes available)
- **Applications:**
  - General and decorative metalwork
  - Electrical/electronic joining
  - Plumbing and heating components
  - Aerospace tubing and fittings
- **Suitable Base Metals:**
  - Copper, brass, bronze
  - Stainless steel
  - Precious metals
- **Notes:**
  - No need for external flux
  - Ensures **clean, strong, corrosion-resistant joints**
  - Ideal for workshop or on-site repairs

## Key Benefits of Silver Solders

- High silver content ensures strong, conductive, and ductile joints
- Excellent capillary action for neat and narrow seams
- Available in bare and flux-cored formats
- Flux core options reduce process steps and cleanup
- Trusted across jewellery, HVAC, aerospace, plumbing, and electronic sectors

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