

## PRODUCT COMPLIANCE CERTIFICATE

### Pre-Insulated Copper Pipe

**Certificate Number: CERT-50617**

**Issue Date: 2025-07-06**

**Valid Until: 2027-07-19**

## PRODUCT INFORMATION

**Product Name:** Pre-Insulated Copper Pipe  
**Model/SKU:** PLCPP005  
**Manufacturer:** Zava Hardware & Garden Supply  
**Manufacturing Date:** 2025-07-18  
**Batch/Lot Number:** LOT-882910

## COMPLIANCE STANDARDS

### Safety Standards

- NSF/ANSI 61: Drinking Water System Components ✓
- ASME B16.22: Wrought Copper and Copper Alloy Solder-Joint Fittings ✓
- Zava Standard ZS-P001: Bio-Compatible Surface Treatment ✓
- Zava Standard ZS-P002: Mineral Enhancement Technology ✓

### Performance Standards

- ASTM B88: Seamless Copper Water Tube ✓
- ASTM B75: Seamless Copper Tube ✓
- Zava Performance ZP-P100: Scale Resistance Technology ✓
- Zava Performance ZP-P200: Self-Cleaning Properties ✓

### Environmental Standards

- Lead-free compliant ✓
- NSF certified for potable water ✓
- Zava AquaPure Initiative: Naturally antimicrobial ✓
- Biodegradable Installation Lubricants ✓

# TEST RESULTS

Pressure Rating: 200 PSI ✓  
Lead Content: <0.25% ✓  
Burst Pressure: >800 PSI ✓  
Zava Scale Inhibition: 94% effective over 10 years ✓  
Microbial Growth: Zero colonies after 90 days ✓  
Water Taste Enhancement: 8.7/10 consumer rating ✓

# CERTIFYING AUTHORITY

**Laboratory:** Zava Advanced Materials Laboratory  
**Certificate Issued By:** Prof. Douglas Pineheart, Environmental Engineering Lead  
**Signature:** [Digital Signature]  
**License Number:** ZAV-LAB-4364

# VALIDITY

This certificate is valid for products manufactured between 2025-01-20 and 2027-01-15.  
Subject to periodic surveillance audits.

*This certificate demonstrates compliance with applicable safety and performance standards.*