

**INTERNATIONAL ASSOCIATION OF PLUMBING  
AND MECHANICAL OFFICIALS**

**IAPMO GUIDE CRITERIA**

**FOR**

**COPPER WROUGHT SOLDER-FILLED JOINT FITTINGS**

**IGC 100-98**

**1. PURPOSE**

- 1.1** The purpose of this IGC is to establish a generally acceptable standard for copper wrought solder-filled joint fittings for installation on copper tubing. Its purpose is to serve as a guide for producers, distributors, architects, engineers, contractors, installers, inspectors and users; to promote understanding regarding materials, manufacture and installation; and to provide for identifying units complying with this IGC.
- 1.2** The provisions of this IGC are not intended to prevent the use of any alternate material, or method of construction, provided any such alternate meets or exceeds the intent of this IGC.
- 1.3** This IGC serves to supplement the provisions of IAPMO IS 3, Copper Plumbing Tube and Fittings.

**2. SCOPE**

- 2.1** This IGC covers minimum standards for materials in the construction of copper wrought solder-filled joint fittings and to prescribe minimum test requirements for the performance of copper wrought solder-filled joint fittings, together with methods of marking and identification.

**3. MATERIAL REQUIREMENTS**

- 3.1** Copper wrought solder-filled joint fittings covered under this IGC shall meet the material requirements, dimensions and tolerances as prescribed in ANSI/ASME B16.22, Wrought Copper and Copper Alloy Solder Joint Pressure Fittings.
- 3.2** Solder covered under this IGC shall be lead-free and meet the requirements of the Federal Clean Drinking Water Act, ASTM B 32, Solder Metal (Alloy grade AM) and IAPMO IS 3, Section 316.1.1.2.
- 3.3** Lead free soldering flux for copper pipe and fitting covered under this IGC shall comply with the appropriate standard as meeting the requirements of the Federal Clean Drinking Water Act and IAPMO IS 3.

**4. PERFORMANCE REQUIREMENTS**