

**INTERNATIONAL ASSOCIATION OF PLUMBING  
AND MECHANICAL OFFICIALS**

**MATERIAL AND PROPERTY STANDARD**

**FOR**

**HEAT EXCHANGERS AND  
INDIRECT WATER HEATERS**

**IAPMO PS 92- 2010**

**1. PURPOSE**

- 1.1** The purpose of this standard is to establish an acceptable standard for heat exchangers and indirect water heaters. 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 the installation; and to provide for identifying heat exchangers that conform with this standard.
- 1.2** The provisions of this standard are not intended to prevent the use of any alternate material or method of construction, provided any such alternate meets the intent of this standard.

**2. SCOPE**

- 2.1** This standard covers requirements for heat exchangers for use in direct and indirect water heaters. This standard covers material and physical requirements along with the methods of marking and identification.

**3. REFERENCE STANDARDS**

- 3.1** The following standards are referenced in this Standard:

ANSI Z21.10.3/CSA 4.3	Gas Water Heaters
ASME A112.18.2/CSA B125.2	Plumbing Waste Fittings
ASTM A 240	Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels and for General Applications
ASME B1.20.1	Pipe Threads, general Purpose, Inch
ASTM B 88	Seamless Water Copper Tube
ASTM E 84	Surface Burning Characteristics of Building Materials
CSA C309	Glass-Lined Storage Tanks for Household Hot Water Service