

**INTERNATIONAL ASSOCIATION OF PLUMBING  
AND MECHANICAL OFFICIALS**

**MATERIAL AND PROPERTY STANDARD**

**FOR**

**LEAD FREE SEALING COMPOUNDS**

**FOR**

**THREADED JOINTS**

**IAPMO PS 36-90**

**1. PURPOSE**

- 1.1** The purpose of this Standard is to establish a generally acceptable standard for lead free sealing compounds for threaded joints for use in drain, waste and vent, potable water and gas lines. 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 sealing compounds that conform with the Standard.

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 physical requirements and tests for leakage and other significant properties in addition to general description of materials not to be used. The methods of marking and identification are also outlined.

**3. GENERAL REQUIREMENTS**

- 3.1** The compound shall be lead free, non-hardening, lubricating, non-corrosive to ferrous metals and suitable for use in metallic and/or plastic pipelines carrying drain, waste and vent, potable water and natural gas. Compounds for use with LPG shall be so labeled and listed. Compounds for use with plastic piping shall be non-reactive.
- 3.2** The compound shall be furnished ready for use without thinning. When tested in accordance with Section 4, the compound shall prevent galling, leaks and seizing of threaded parts. The compound shall be a smooth, homogeneous mixture, free from lumps.