

1346.5403 SECTION 403 (IFGC) PIPING MATERIALS.

Subpart 1. **Section 403.8.** IFGC Section 403.8 is amended to read as follows:

403.8 Protective coating. Where in contact with material, or passing through concrete or other abrasive material or atmosphere exerting a corrosive action, metallic piping and fittings coated with a corrosion-resistant material, sleeve, or casing shall be used. Steel pipe exposed in exterior locations shall be galvanized or coated with approved corrosion-resistant material. External or internal coatings or linings used on piping or components shall not be considered as adding strength.

Subp. 1a. **Section 403.10.1.** IFGC section 403.10.1 is amended to read as follows:

403.10.1 Pipe joints. Pipe joints shall be threaded, flanged, brazed, welded, or made with press-connect fittings complying with ANSI LC-4. Where nonferrous pipe is brazed, the brazing materials shall have a melting point in excess of 1,000°F (538°C). Brazing alloys shall not contain more than 0.05 percent phosphorus.

Subp. 1b. **Section 403.10.2.** IFGC section 403.10.2 is amended to read as follows:

403.10.2 Tubing joints. Tubing joints shall be either made with approved gas tubing fittings or brazed with a material having a melting point in excess of 1,000°F (538°C), or made by press connect fittings complying with ANSI LC-4, Press-Connect Copper and Copper Alloy, Fittings for Use in Fuel Gas Distribution Systems. Brazing alloys shall not contain more than 0.05-percent phosphorus.

Subp. 2. **Section 403.10.4.** IFGC Section 403.10.4 is amended to read as follows:

403.10.4 Metallic fittings. Metallic fittings, including valves, strainers, and filters, shall comply with the following:

1. Threaded fittings in sizes larger than 2 inches (51 mm) shall not be used except where approved.
2. Fittings used with steel or wrought-iron pipe shall be steel, brass, bronze, or malleable iron.
3. Fittings used with copper or brass pipe shall be copper, brass, or bronze.
4. Fittings used with aluminum alloy pipe shall be of aluminum alloy.
5. Brass, bronze, or copper fittings. Fittings, if exposed to soil, shall have a minimum 80 percent copper content.
6. Aluminum alloy fittings. Threads shall not form the joint seal.
7. Zinc-aluminum alloy fittings. Fittings shall not be used in systems containing flammable gas-air mixtures.

Statutory Authority: *MS s 16B.59; 16B.61; 16B.64; 326B.02; 326B.101; 326B.106; 326B.13*

History: *29 SR 299; L 2007 c 140 art 4 s 61; art 13 s 4; 34 SR 537; 39 SR 690*

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