

Abstract

Title of Invention: FIBER-REINFORCED COMPOSITE PIPE AND COLD/WARM WATER PIPING SYSTEM

The present invention provides a fiber-reinforced composite pipe serving as a multi-layered pipe material having high strength and high dimensional stability and excellent in workability and provides a cold/warm water piping system excellent in dimensional stability and improved in workability. The fiber-reinforced composite pipe of the invention comprises a first layer of tubular form containing a polyolefin-based resin, a second layer of tubular form containing a polyolefin-based resin, a glass fiber and a compatibilizing agent, and a third layer of tubular form containing a polyolefin-based resin, in which the second layer is disposed on the outer side of the first layer and the third layer is disposed on the outer side of the second layer; the ratio of the thickness of the second layer relative to the total thickness of the first, second and third layers is 0.3 or more and 0.8 or less; and the content of the polyolefin-based resin is 45 wt% or more and 84 wt% or less, the content of the glass fiber is 15 wt% or more and 45 wt% or less and the content of the compatibilizing agent is 0.5 wt% or more and 10 wt% or less in 100 wt% of the second layer.

- Figure 1