

Abstract

The problem is to provide a method for producing a three-layer coated metal tube 1 with large adhesion strength and high reliability with high productivity. The three-layer coated metal tube 1 is made by laminating an epoxy resin layer 11, an adhesive layer 12 and a polyolefin resin layer 13 in this order on an outer peripheral surface 10S of the metal tube 10. The three-layer coated metal tube 1 is produced by the following step (1) to step (5).

- (1) a step of heating the metal tube 10 to a temperature equal to or greater than a glass-transition point (T_g) of the epoxy resin which is a material of the epoxy resin layer 11, and equal to or less than a crosslinking-reaction temperature of the epoxy resin
- (2) a step of forming a coating film of the epoxy resin on the outer peripheral surface of the metal tube 10 by electrostatic coating method or fluidized immersion method
- (3) a step of forming a coating film of a hot melt adhesive by electrostatic coating method or fluidized immersion method on the coating film of the epoxy resin which is in a semi-molten state
- (4) a step of heating the metal tube 10 at a temperature greater than that in step (1)
- (5) a step of forming a coating film of a polyolefin resin on the coating film of the hot melt adhesive