

Abstract

Provided is a method of manufacturing an yttria thermal spray coating having low porosity, high density, and excellent plasma resistance, including arranging a spray unit at a distance of 50 to 130 mm from a base material, subjecting Y_2O_3 thermal spray powder to atmospheric plasma spraying to form an yttria thermal spray coating on the base material, and supplying water at a rate of 50 to 400 ml/min together with the Y_2O_3 thermal spray powder.

FIG. 1