

ABSTRACT

A method for manufacturing a quartz member including a step of spraying silica powder onto a target member surface while pushing it out with gas through a burner, the step being performed in an oxyhydrogen flame atmosphere, and a temperature of the target member surface being 1401°C to 2000°C. A method for spray coating silica powder including steps of: pushing the silica powder out with a carrier gas through a quartz burner having a triple or more multi-layer structure; and spraying the silica powder onto a target member surface while melting the silica powder under an oxyhydrogen flame atmosphere.