

Abstract

COMPOSITE MATERIAL MANUFACTURING METHOD AND COMPOSITE MATERIAL

An object of the present invention is to provide an additively manufactured part with high temperature strength and high ductility that can be suitably used for hot forging even in the temperature range of 800 °C or more, and a manufacturing method therefor. The manufacturing method for the additively manufactured part in accordance with the present invention includes an additive manufacturing step of using composite powder containing ceramic and metal and having voids therein to form a composite material containing the ceramic and the metal by repeating steps of melting and solidifying the composite powder; and a remelting step of remelting the surface of the composite material.

Figure 4