

METAL POWDER FOR ADDITIVE MANUFACTURING AND ADDITIVELY
MANUFACTURED PRODUCT USING SAME

5

ABSTRACT

Provided are: a metal powder for additive manufacturing that makes it possible to produce an additively manufactured product that has excellent mechanical properties and few internal flaws and undergoes little deformation due to strain; and an additively manufactured product using the metal powder for additive manufacturing. A metal powder for additive manufacturing that comprises, by mass%, 14.0%-24.0% of Ni, 2.0%-8.0% of Mo, 10.5%-20.0% of Co, 0.01%-2.00% of Al, and 0.10%-3.00% of Ti, the remainder being Fe and unavoidable impurities. An additively manufactured product that comprises, by mass%, 14.0%-24.0% of Ni, 2.0%-8.0% of Mo, 10.5%-20.0% of Co, 0.01%-2.00% of Al, and 0.10%-3.00% of Ti, the remainder being Fe and unavoidable impurities. In a cross-section of the additively manufactured product taken parallel to the build direction, there are fewer than 0.1 flaws that have an equivalent circle diameter of more than 20 μm per 1 mm^2 .

FIG. 1