ABSTRACT

Provided is hot work tool steel powder for additive manufacturing, with which an additively manufactured hot work tool steel object can be obtained that can further improve crack resistance during manufacturing and has excellent toughness. The present invention provides hot work tool steel powder for additive manufacturing and an additively manufactured hot work tool steel object, containing, by mass%, $0.10\% \leqq C \leqq 0.40\%$, $0.01\% \leqq Si \leqq 0.19\%$, $0.1\% \leqq Mn \leqq 1.0\%$, $0.3\% \leqq Ni < 1.0\%$, $3.5\% < Cr < 4.5\%$, one or two of Mo and W according to a relationship formula (Mo + 1/2 W): $2.5\% \leqq (Mo + 1/2\ W) < 3.5\%$, $0.45\% \leqq V \leqq 1.0\%$, $0.1\% \leqq Cu \leqq 1.0\%$, with a remainder being Fe and unavoidable impurities, and satisfying formula (1): $C + Si/30 + (Mn + Cr + Cu)/20 + Ni/60 + (Mo + 1/2W)/15 + V/10 \leqq 0.80$.

FIG. 2