

ABSTRACT:**MOLYBDENUM ALLOY TARGET AND METHOD OF
PREPARING THE SAME AND MOLYBDENUM ALLOY LAYER:**

Provided are a molybdenum alloy target, a method of preparing the
5 same, and a molybdenum alloy layer. The molybdenum alloy target includes
molybdenum and a first additive metal, the first additive metal contains
rhenium, ruthenium or a combination thereof. By controlling the composition
and sintering conditions of the molybdenum alloy target and using the
molybdenum powder with a specific oxygen content, the molybdenum alloy
10 target having a specific composition, two metallographic phase or more, a low
oxygen content and high relative density can be obtained. Accordingly, the
molybdenum alloy layer that has good thermal conductivity, heat resistance and
corrosion resistance, and can be used as a heat sink layer of a perpendicular
heat-assisted magnetic recording media.

15 Fig. 1A