

ABSTRACT

SODIUM/MOLYBDENUM POWDER COMPACTS AND METHODS FOR PRODUCING THE SAME

A method for producing a metal article according to one embodiment may include: Providing a supply of a sodium/molybdenum composite metal powder; compacting the sodium/molybdenum composite metal powder under sufficient pressure to form a preformed article; placing the preformed article in a sealed container; raising the temperature of the sealed container to a temperature that is lower than a sintering temperature of molybdenum; and subjecting the sealed container to an isostatic pressure for a time sufficient to increase the density of the article to at least about 90% of theoretical density.

Fig. 2