ABSTRACT

Proposed is a manufacturing method for a high-density YF_3 coating layer by high-velocity oxygen fuel spraying (HVOF). More particularly, proposed is a manufacturing method for a high-density YF_3 coating layer by HVOF, in which YF_3 powder is melted and quenched to form densified spherical YF_3 particles and then the YF_3 particles are applied by HVOF to form a high-density YF_3 coating layer with improved mechanical properties and plasma resistance.

Figure 4