

ABSTRACT

The present disclosure relates to an yttrium-based granular powder for thermal spraying. More particularly, the
5 yttrium-based granular powder is a mixture including one or more yttrium compound powders selected from among Y₂O₃, YOF, YF₃, Y₄Al₂O₉, Y₃Al₅O₁₂, and YAlO₃, and a silica (SiO₂) powder. A Y-Si-O intermediate phase is included therein in a content of less than 10 wt%. The thermal spray coating manufactured
10 using the same has a low porosity, and forms a very dense thin film, thus ensuring excellent plasma resistance.
Fig. (1).