ABSTRACT

HIGH DENSITY THERMAL BARRIER COATING

A process for coating an article includes the steps of applying a bond coat layer onto at least one surface of an article; applying upon said bond coat layer a thermal barrier coating composition comprising a particle size distribution of no less than about 8 microns and no more than about 88 microns; heat treating said thermal barrier coating composition at a temperature of between about 1,800°F to 2,200°F for about 2 hours to 4 hours at a pressure of about $1x10^{-3}$ torr to $1x10^{-6}$ torr; and forming a thermal barrier coating layer comprising a cracking density of no more than about twenty cracks per linear inch of said thermal barrier coating.

FIGURE 3