

THERMAL BARRIER COATINGS WITH LOW THERMAL CONDUCTIVITY

ABSTRACT OF THE DISCLOSURE

A thermal barrier coating comprising from 0.5 to 22.0 mol% of CeO_2 , and from 0.5 to 22.0 mol% of at least one first oxide selected from the group consisting of La_2O_3 , Sm_2O_3 , Tb_2O_3 , Tm_2O_3 , Ho_2O_3 , Lu_2O_3 , MgO , CaO , Pr_2O_3 , Nd_2O_3 , Eu_2O_3 , Gd_2O_3 , Dy_2O_3 , Er_2O_3 , Yb_2O_3 , and mixtures thereof, combined with a second oxide selected from the group consisting of zirconia and hafnia, and said CeO_2 and said at least one first oxide being present in an amount not greater than 22.5 mol%.