

THERMAL BARRIER COATINGS WITH LOW THERMAL CONDUCTIVITY

ABSTRACT OF THE DISCLOSURE

A thermal barrier coating comprising from 0.5 to 1.0 mol% of at least one first oxide from the group consisting of CeO_2 , Pr_2O_3 , Nd_2O_3 , Eu_2O_3 , Gd_2O_3 , Dy_2O_3 , Er_2O_3 , Yb_2O_3 , In_2O_3 , Sc_2O_3 , Y_2O_3 , and mixtures thereof, combined with a second oxide selected from the group consisting of zirconia, hafnia, and ceria.