

A PROCESS FOR REMOVING ALUMINOSILICATE MATERIAL FROM A SUBSTRATE, AND RELATED COMPOSITIONS

ABSTRACT OF THE DISCLOSURE

A process for removing aluminosilicate-based material (e.g., "CMAS") from a substrate is described. The material is treated with an aqueous composition containing at least one acid having the formula H_xAF_6 , in which A is Si, Ge, Ti, Zr, Al, and Ga; and x is 1-6. Treatment of the substrate is often carried out by immersion in an aqueous bath. The process is also very effective for removing CMAS-type material from cavities in the substrate, e.g., cooling holes in a gas turbine component. Related compositions are also described.

Figure 1