

**COATING SUITABLE FOR USE AS A BONDCOAT IN A THERMAL
BARRIER COATING SYSTEM**

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ABSTRACT

A coating suitable for use as a bondcoat for a thermal barrier coating system includes about 5 to about 10 weight percent of aluminum (Al), about 10 to about 18 weight percent of cobalt (Co), about 4 to about 8 weight percent of chromium (Cr), about 0 to about 1 weight percent of hafnium (Hf), about 0 to about 1 weight percent of silicon (Si), about 0 to about 1 percent of yttrium (Y), about 1.5 to about 2.5 weight percent of molybdenum (Mo), about 2 to about 4 weight percent of rhenium (Re), about 5 to about 10 weight percent of tantalum (Ta), about 5 to about 8 weight percent of tungsten (W), about 0 to about 1 weight percent of zirconium (Zr), and a remainder of nickel (Ni).