

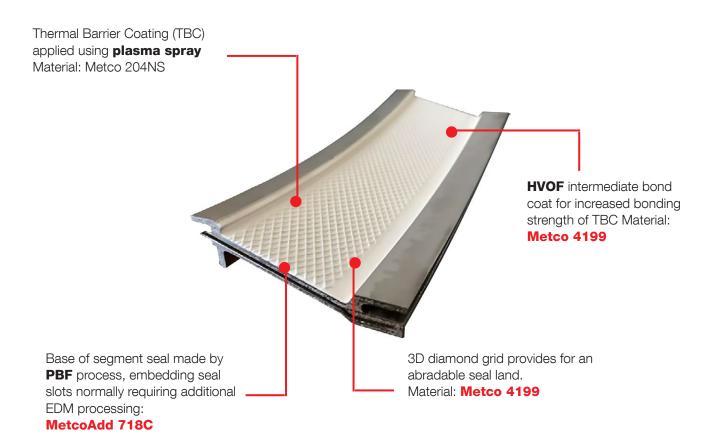
Application Bulletin

Additive Manufacturing Seal Segment — Gas Turbine Engine

Seal segments depend on materials with high creep and fatigue strength at elevated temperatures. A 3D structured seal land in combination with a ceramic thermal barrier coating (TBC), provides for a high temperature abradable seal.

The Oerlikon Metco Solution

MetcoAdd 718C is used to print the body of the seal segment. A 3D diamond grid is applied using micro laser cladding and forms an abradable seal land. An HVOF-applied bond coat increases the bond strength of the TBC. Processing via Additive Manufacturing provides a quick and effective turnaround for prototype components and opens up opportunities for effective internal cooling and weight reduction.



Recommended Oerlikon Metco Products More Info		More Information
MetcoAdd 718C	High creep and fatigue strength at elevated temperatures	DSM-0296