



Technical specifications for plasma sprayed ThermoHold® Performance Aluminium™

Bond coat	Nickel based alloy
Thickness of bond	Min 30µm Max 50µm
Ceramic material	Proprietary mix of zirconia based ceramics.
Ceramic thickness	200-250µm depending on customer requirements and substrate geometry
Top layer	Aluminium
Top layer thickness	20 - 50µm
Total coating thickness	No more than 350µm unless specified
Coating mass	0.85 – 1.05 kg/m ²
Ave. coating density	~5200 kg/m ³
Bond coat density	~7000 kg/m ³
Ceramic density	~4500 kg/m ³
Surface texture	Rough to the touch Approximately 20 - 30 Ra
Colour	Aluminium
Emissivity	~0.05
Reflectivity	~95%
Thermal conductivity	~1.4w/m°K
Electrical properties	Electrically conductive
Surface hardness	2.9 on modified mhos scale
Max. coating temp.	500°C (contact)
Porosity of ceramic	8 – 12 %
Young's modulus	28 -46 GPa
Poisson's ratio	0.2