

PoluAl High Temp



PROBLEM

Fuel combustion and other production processes often result in the exhaust of high temperature gasses. These gasses will not only pollute the environment with their chemical composition but the heat will also cause thermal pollution. To prevent excessive energy loss through the chimney pipes, these gasses must be chilled. This is accomplished through the use of heat regaining systems that can operate in aggressive conditions. Because temperature, humidity and aggressive chemical concentrations are high, corrosion will rapidly occur on most metals. Sulfur and nitrogen are the main compounds responsible for the initiation and acceleration of corrosion damage.

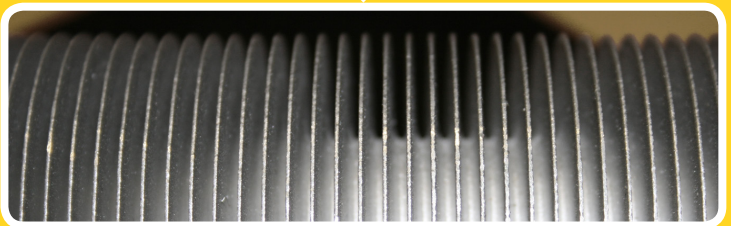


WHY USE POLUAL HIGH TEMP?

- To prevent corrosion at temperatures up to 550°C (1022°F)

SOLUTION

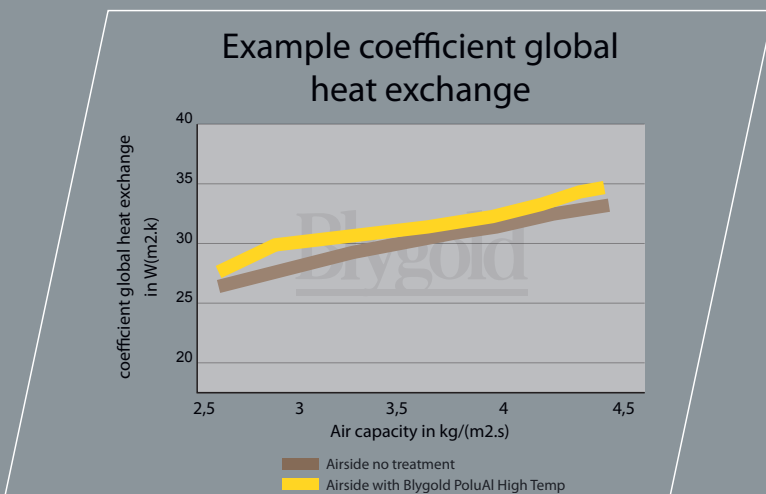
To protect the most important part of the heat regaining system, Blygold has developed a special coating to withstand severe corrosive conditions. Blygold PoluAl High Temp is a heat conducting, corrosion prohibitive coating that is able to protect metals from rapid deterioration in extreme conditions and to withstand temperatures up to 550°C (1022°F). Blygold PoluAl High Temp will prevent capacity loss and premature deterioration of the heat exchanger. Applied by qualified Blygold applicators, this protection system will ensure energy recovery and optimal performance.



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TECHNICAL INFORMATION

Treatment:	Blygold PoluAl High Temp
Coating type:	Aluminum pigmented siloxane
Color:	Silver
Pretreatment:	Blygold Passivation Treatment
Temperature Range (dry):	0 to 550°C (32 to 1022°F)
Substrates:	Steel and Aluminum
ASTM B117:	1500 hours (neutral-salt spray test)
ASTM B287:	1500 hours (acid-salt spray test)
Kesternich (2.0 ltr SO ₂):	24 cycles
Layer Thickness:	50 µm (2 mil)
Pressure Drop:	0-5 % (depending on fin geometry)
Thermal Resistance:	0-3 % (depending on fin geometry)
Application:	Qualified Blygold Applicator
UV Resistance:	Excellent
Adhesion (cross hatch):	0 (European) 5b (USA)
Applications:	Heat exchanging surfaces in high temperatures
Chemical Resistance:	Excellent



CONTACT

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