

# JET-HOT S04G

FLUOROPOLYMER / PTFE COATING

## OVERVIEW

Jet-Hot's S04G coating is a fluoropolymer thermoplastic that provides outstanding barrier protection against corrosion, especially in high heat environments. Typically applied to the interior portions of diesel engine exhaust components where they protect aluminum castings from harsh and acidic gasses.

Typical substrates are steel and aluminum, however, various others can be used. Not intended as a low friction and wear coating although it may confer some of those benefits. Care must be taken in regards to curing temperature and annealing effects on aluminum alloys.



## SPECIFICATIONS

Service Temperature	500°F (206°C) Continuous, 550°F (288°C) Peak
Adhesion (ASTM D3359)	5B
Pencil Hardness	S04G, HB-F (scratch), 5-6H (gouge) S04R, B-HB (scratch), 3H (gouge)
Surface Energy	25 mN/m
Contact Angle (5W-30 oil)	51 degrees
Contact Angle (water)	94 degrees
Reverse Impact Resistance (ASTM D2794)	> 20 < 40 inch lbs. at 2 mils thick
Direct Impact Resistance (ASTM D2794)	> 20 < 40 inch lbs. at 2 mils thick
Mandrel Bend (ASTM B489)	< 3/8 inch at 2 mils thick
Corrosion Resistance (ASTM B117)	> 1000 hours