



DESCRIPTION

Stelcar™ JK™ 120P is a powder that is capable of producing coating properties similar to UCAR LW15 using propylene or propane fuel with the Jet Kote™ thermal spray process. (Please note JK™120H is specified for Hydrogen fuel only and JK™120P is recommended for Carbon based fuels such as propylene.) This particular WC/Co/Cr composition was designed for thick overlay applications or for general use.

This powder can be used with several HVOF thermal spray processes such as Praxair's JP-5000¹. In addition, this powder can be applied by various plasma spray systems.

Stelcar JK 120P is significantly more corrosion resistant than coatings containing an unalloyed cobalt matrix, however, **JK™ 120P** coatings may require sealing if applied to base materials of low corrosion resistance.

APPLICATIONS

Stelcar JK 120P is used to hardface compressor rods, pump casings, pump impellers, pump plungers, pump sleeves, paper manufacturing suction rolls, mechanical seal faces, feed screws, gate valves, fan blades, as well as various chemical, oilfield, and petrochemical parts.

FORM: Powder for HVOF thermal spray coatings

NOMINAL COMPOSITION (MASS%)

WC	Co	Cr
86%	10%	4%

NOMINAL POWDER PROPERTIES

Production Method	Agglomerated, sintered and partially plasma densified
Mesh Size	270 mesh / 15 microns
Apparent Density (g/cm ³)	5.8 nominal

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World Headquarters

Kennametal Inc.
1600 Technology Way
Latrobe, PA 15560
USA
T 800 446 7738 (US & Canada)
E-mail: fmill.service@kennametal.com

Europe

Kennametal Stellite
Zur Bergpflege 51-53
56070 Koblenz
Germany
T +49 261 80 88 0
E-mail: k-milks.europesales@kennametal.com

Americas

Kennametal Stellite
1201 Eisenhower Drive North
Goshen, Indiana 46526
USA
T 1 574 534 2585
E-mail: k-milks.americasales@kennametal.com