

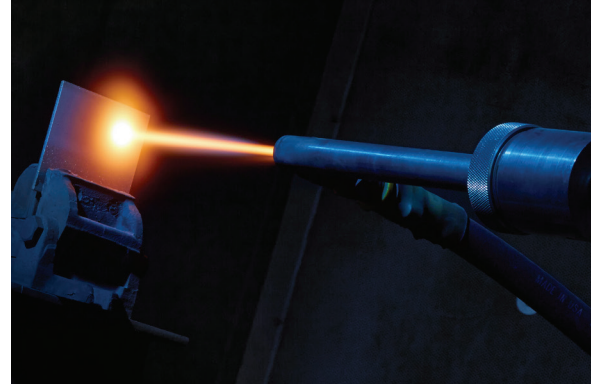
# POWDERS

## TUNGSTEN CARBIDE THERMAL SPRAY POWDERS

TECHNICAL DATA

### PRODUCT DESCRIPTION

Stelcar™ GA thermal spray grades are agglomerated and sintered tungsten carbide-based composite powders based on our JetKote™ product lines. These grades are designed as an economical option for the application of high-quality coatings using plasma or High Velocity Oxygen Fuel (HVOF) spray equipment commonly available throughout the market.



### TYPICAL PHYSICAL PROPERTIES

Stelcar™ Grade	Product Code (Material Master)	Typical Composition	Nominal Particle Size	Principal Application
JK112GA	5965985	WC - 12% Co	45µm x 15µm	Excellent resistance to abrasion, erosion, and sliding wear; hard chrome replacement with highly polished surface finish
JK117GA	6026894	WC - 17% Co	45µm x 15µm	Good resistance to abrasion, erosion, sliding wear and fretting; hard chrome replacement
JK120GA	5965986	WC - 10% Co - 4% Cr	45µm x 15µm	Excellent corrosion resistance; abrasion and erosion resistance; hard chrome replacement with highly polished surface finish
JK125GA	6083133	WC - 20% Cr <sub>3</sub> C <sub>2</sub> - 7% Ni	45µm x 15µm	Excellent resistance to salt, sea water, and amine environments; moderate resistance to sulfuric acid

Standard and customer-specific formulas available.  
Mesh screening available upon request for additional fee.

### PACKAGING

Product ships in 11-lb. (5-kg) plastic bottles.



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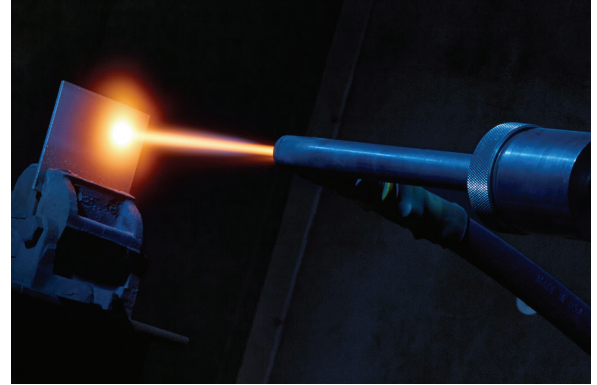
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## TUNGSTEN CARBIDE THERMAL SPRAY POWDERS

TECHNICAL DATA

### PRODUCT DESCRIPTION

Intended for general industrial application for the most common spray platforms. This specific grade line is agglomerated, sintered, and crushed.



### TYPICAL PHYSICAL PROPERTIES

Grade	Product Code (Material Master)	Typical Composition	Nominal Particle Size	Principal Application
KS12R	1866947	WC - 12% Co	100 x 270	Abrasive wear resistance, resistant to fretting and sliding wear
	1584350		140 x 325	
	2235373		200 x 270	
	1818393		200 x 325	
	1584372		230 x 10 $\mu$ m	
	1584352		325 x 20 $\mu$ m	
	1751075		325 x 15 $\mu$ m	
	1584353		325 x 10 $\mu$ m	
	1584369		30 $\mu$ m x 15 $\mu$ m	
KS14X	3960616	WC - 10% Co - 4% Cr	270 x 15 $\mu$ m	Hard chrome plate alternative, improved corrosion and oxidation resistance
	1584387		325 x 10 $\mu$ m	
	1584388		30 $\mu$ m x 15 $\mu$ m	
KS17R	1603765	WC - 17% Co	325 x 10 $\mu$ m	Toughness and impact strength combined with erosive wear resistance
KS20R	1776069	WC - 20% Co	170 x 325	Increased toughness and impact strength combined with erosive wear resistance
	1584412		325 x 10 $\mu$ m	
KS25X	1584415	WC - 13% Fe - 7% Ni	140 x 325	Abrasive wear resistance
KS27R	1800544	WC - 20% Cr <sub>3</sub> C <sub>2</sub> - 7% Ni	30 $\mu$ m x 15 $\mu$ m	Improved resistance to higher temperatures, abrasion, and corrosion

Standard and customer-specific formulas available.  
Mesh screening available upon request for additional fee.

### PACKAGING

Product typically ships in 50-lb. (25-kg) plastic buckets.

Kennametal manufactures sophisticated materials, solid carbide, alloy castings, and machined parts that resist wear, corrosion, and abrasion. Information provided in this document is intended only for general guidance about Kennametal products and is the best information in our possession at the time. Product users may request information about their individual use of our products, but Kennametal does not warrant or guarantee this information in any way. Selection and purchase of Kennametal products is the sole responsibility of the product user based on the suitability of each use. Kennametal cannot know or anticipate the many variables that affect individual product use, and individual performance may vary. For these reasons, Kennametal does not warrant or guarantee advice or information in this document, assumes no liability regarding the same, and expressly disclaims any warranty of any kind, including any warranty of fitness for a particular purpose, regarding the same.

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