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.

Formulations
Stelcar™ GA powders are stocked in standard compositions commonly used in the spray industry. Other compositions may be available upon request, but they may not be in-stock.

<table>
<thead>
<tr>
<th>Stelcar™ Grade</th>
<th>Composition (Weight %)</th>
<th>Nominal Particle Size</th>
<th>Typical Usage</th>
<th>Material Number</th>
</tr>
</thead>
</table>
| 112GA          | WC / Co 88 / 12        | -45μm / +10μm (-270mesh/+10μm) | • Excellent for resistance to abrasion, erosion, and sliding wear.  
• A hard chrome replacement that can be finished to a highly-polished surface.  
• Low toughness compared to Stelcar™ 117GA. | 5965985 |
| 117GA          | WC / Co 83 / 17        | -45μm / +15μm (-270mesh / +15μm) | • Good for resistance to abrasion, erosion, sliding wear and fretting.  
• Suitable for hard chrome replacement  
• High toughness compared to Stelcar™ 112GA provides better impact resistance | 6026894 |
| 120GA          | WC / Co / Cr 86 / 10 / 4 | -45μm / +15μm (-270 mesh / +15μm) | • Suitable for applications with abrasive and erosive wear requiring excellent corrosion resistance.  
• A hard chrome replacement that can be finished to a highly-polished surface. | 5965986 |
| 125GA          | WC / CrC / Ni 73 / 20 / 7 | -45μm / +15μm (-270 mesh / +15μm) | • Improved corrosion compared to WC/Co coatings because of nickel and nickel-chrome matrix.  
• Excellent resistance to salt, sea water and amine environments with moderate resistance to sulfuric acid.  
• Recommended for wear applications where oxidation resistance superior to WC/Co is required. | 6083133 |
Quality
All Stelcar™ GA powders are manufactured in Kennametal facilities in North America. The powder is commercially uniform in purity. The chemical and physical analyses are determined for each production lot of powder using commercially accepted methods.

The results of all relevant tests are reported to the customer on a Certificate of Analysis.

Contact
Please contact Kennametal’s customer service group with inquiries about Stelcar™ GA grades or other thermal spray products.

Phone: 800-235-9353 or 574-534-2585
Email: k-gshn.service@kennametal.com