Chromium carbide powder: CAS No: 12075-40-0, UN number: 3178, density: 6.68 g/cm³, melting point: 1890°C...etc, formula: Cr3C2, Cr7C3, Cr23C6, CrC. Chromium carbide powder has the properties of good corrosion resistance, wear resistance, oxidation resistance even under high temperature of 1000-1000 degrees.

Carbide chromium powder is widely used in the fields of cemented carbide products, cermets, plasma spraying, HOVF spraying, metallurgy... etc.

Chromium carbide powder has the properties of good corrosion resistance, wear resistance, oxidation resistance even under high temperature of 1000-1000 degrees. Cr3C2 based cermet has excellent oxidation resistance at high temperature, the surface color is only dusty after exposure at 980 °C for 5 hours. Under similar condition, #18-8 stainless steel is destroyed obviously and the WC-6Co alloy is totally oxidized.
Advantage: Why Langfeng Material’s carbide powder is better:

1: use high purity raw material: chromium oxide, carbon black powder. Strictly control in raw material ensure the high purity of end product: chromium carbide solid solution powder;

2: unique additive application ensure powder grain densification, fairly well carburizing sintering, well-distributed grain;

3: unique sintering process ensure single phase solid solution, low oxygen and low free carbon content, which bring high and stable quality;

Carbide chromium powder is widely used in the fields of cemented carbide products, ceramics, plasma spraying, HVOF spraying, metallurgy... etc.

Chromium carbide powder is commonly used as grain inhibitor and grain finer in cemented carbide products, like cutting tools, enhance the tools’ hardness and wear resistance, toughness and strength.

Chromium carbide powder is used as additive in the field of spray coating material, welding powder material, it could be worked into NiCr-Cr3C2 powder, a new cermet powder.

Applied in the industry of Cr3C2 wear resistance complex steel plate (such as SA1750CR), Overlaying Complex steel Plate, wear resistance film and semiconductor film.

Could used in the field of wear resistance welding material, such cr3C2 welding rod (D626, D402), NbC-Cr3C2 complex welding rod.
Hot sale four grades Cr3C2, Cr7C3, Cr23C6, CrC of chromium carbide powders as below:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Total Carbon (max,%)</th>
<th>Free carbon (max,%)</th>
<th>Other element (% max)</th>
<th>Si</th>
<th>Fe</th>
<th>V</th>
<th>O</th>
<th>Ti</th>
<th>Ni</th>
<th>Mo</th>
<th>Co</th>
</tr>
</thead>
<tbody>
<tr>
<td>LF-Cr3C2-C</td>
<td>≥12.8</td>
<td>≤0.30</td>
<td></td>
<td>0.01</td>
<td>0.1</td>
<td>0.01</td>
<td>0.50</td>
<td>0.01</td>
<td>0.01</td>
<td>0.01</td>
<td>0.01</td>
</tr>
<tr>
<td>LF-Cr3C2</td>
<td>≥12.8</td>
<td>≤0.30</td>
<td></td>
<td>0.25</td>
<td>0.25</td>
<td>0.1</td>
<td>0.50</td>
<td>0.10</td>
<td>0.3</td>
<td>0.3</td>
<td>0.3</td>
</tr>
<tr>
<td>LF-Cr7C3</td>
<td>≥8.8</td>
<td>≤0.30</td>
<td></td>
<td>0.25</td>
<td>0.25</td>
<td>0.1</td>
<td>0.50</td>
<td>0.10</td>
<td>0.3</td>
<td>0.3</td>
<td>0.3</td>
</tr>
<tr>
<td>LF-Cr23C6</td>
<td>≥5.5</td>
<td>≤0.30</td>
<td></td>
<td>0.25</td>
<td>0.25</td>
<td>0.1</td>
<td>0.50</td>
<td>0.10</td>
<td>0.3</td>
<td>0.3</td>
<td>0.3</td>
</tr>
<tr>
<td>LF-CrC</td>
<td>≥18.0</td>
<td>≤0.30</td>
<td></td>
<td>0.25</td>
<td>0.25</td>
<td>0.1</td>
<td>0.50</td>
<td>0.10</td>
<td>0.3</td>
<td>0.3</td>
<td>0.3</td>
</tr>
</tbody>
</table>

Grain range: 0.5-500 micrometer, 5-400mesh; Grain size and composition could be customized.

Changsha Langfeng metallic material CO., Ltd brief introduction

Contact information:
Official website: www.langfengmaterials.com
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Changsha Langfeng Metallic Material Co., Ltd

Changsha Langfeng metallic material CO., Ltd uphold the mission of the world benefit, is committed to doing the field of science and technology advances in new materials, builders, build the world’s material industry aircraft carrier!

Our company specializes in R & D, production and sales of new materials for aviation and aerospace, new materials for military rocket systems, spraying materials, functional materials, special ceramic materials, cemented carbide, metal ceramic materials and cutting tools.

The company has 16,000 square meters of standard factory, covering 50 acres, 180 employees. There are a full range of testing equipment and strong technical force; we have a 50-person R & D team, including 2 academicians, 10 Professors, 20 Ph.D. The company has been recognized by the state enterprise technology centers, national laboratory accreditation, the drafting of national standards units, access to a number of invention patents and Gold Award, maintaining long-term technical cooperation with the Chinese Academy of Sciences, Central South University and Changsha Institute of Mining and Metallurgy.

Products are widely used in metallurgy, construction, electronics, machinery, petroleum, textile, aerospace, cemented carbide and metal ceramics, and other high-tech fields. Product sales have covered more than 50 countries and regions in the world, a total of more than 600 customers, by the broad masses of the user's consistent high praise.

**Company culture**

Company vision: Promoter in the field of new materials science and technology, become the carrier of new materials industry.

Company mission: Benefiting the world

Enterprise business philosophy: integrity, quality, innovation, win-win

Enterprise service concept: respect for customers, quick response, constant improvement and the pursuit of the better

Enterprise spirit: teamwork, courage to open up, never abandon, create brilliant

Enterprise values: for the excellent quality of the legislation of the enterprise, to get the heart of the people with quality service.

Enterprise responsibility: to create value for customers, for employees to build a successful life stage.

Business Pursuit: In the next five years, our overall plan is through an additional investment of USD 80 million. By 2023, we will become a world-class production and R&D base for new materials, sales revenue will up to 10 billion US dollars.