ZrC Zirconium Carbide Powder

ZrC powder achieved production technical patent. Patent number: 2010102470107

ZrC Zirconium carbide powder is a kind of gray metallic powder, density: 6.73 g/cm³, melting point: 3530°C, English name: zirconium carbide powder, CAS NO.: 12070-14-3, UN code: 3178, Molecular formula: ZrC, with corrosion resistance, high surface activation, high temperature resistance, oxidation resistance, high hardness, good electrical conductivity, good thermal conductivity, high melting point characters, with high efficient absorption of visible light, reflecting infrared, and stored energy regeneration and so on characteristic. Zirconium carbide is a kind of important high melting point, high strength and corrosion resistance of high temperature structural materials.
The mixture of TaC and ZrC (with the mole ratio 4:1) is a thermionic emission with very high melting point. Application in manufacturer of the high performance cemented carbide, aerospace, atomic energy, textile, electronic, coating, flinty thin film and metallurgy automation key materials and so on high and new technology field.

Changsha Langfeng metallic material Co., Ltd ZrC Zirconium carbide powder products’ advantages:

Using high purity zirconium oxide and high purity carbon black as raw materials, to ensure the purity of zirconium carbide powder. The company’s original additive application technology make the powder grain densification, carbonization sintering uniform and uniform size.

Unique carbonization sintering technology to ensure a low oxygen content, low free carbon, product quality and stability.

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<tr>
<th>GRADE</th>
<th>CHEMICAL COMPOSITION (max, %)</th>
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<tr>
<td></td>
<td>Total carbon</td>
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<tr>
<td></td>
<td></td>
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<tr>
<td>LF-ZrC</td>
<td>≥11.2</td>
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Particle size: 0.5-500 micron, 5-400mesh; Particle size and chemical composition are modified on request.
Application in manufacturing of the high performance cemented carbide, aerospace, atomic energy, textile, electronic, coating, flinty thin film and metallurgy automation key materials and so on, high and new technology field.

Zirconium carbide powder with high efficient absorption of visible light, reflecting infrared, and stored energy regeneration and so on characteristic. ZrC powder is widely used in special textile material which has the function of heat preservation heat storage, such as: bluejean, thermal underwear, winter sportswear, thermal pad, and so on;

ZrC Zirconium carbide powder could be applied into new carbon complex function material, improve performance on the grade of high temperature resistance and corrosion resistance. Now it is widely used in the field of military and aerospace. And could be applied to the product of electrode, the fire-proof material and as an important abrasive.
Changsha Langfeng Metallic Material Co., Ltd brief introduction

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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 has 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.