TiC Titanium Carbide Powder, density: 4.93g/cm³, melting point: 3140°C, boiling point: 4300°C, English name: titanium carbide powder, CAS NO.: 12070-08-5, UN code 3178. Molecular formula: TiC, grey black powder with cubic system NaCl structure. As high melting point, high hardness, good chemical stability.

The carbide is mainly used in manufacturing of cermet, heat-resistant alloy and cemented carbide due to its high melting point, high hardness and good chemical stability. Titanium carbide can form a binary, ternary, quaternary compound solid solution with tungsten carbide, titanium carbide, niobium carbide, chromium nitride, and titanium nitride, applied in the spray coating material, the welding material, the flinty membranous material, the military aviation material, the hard alloy and the cermet.
Changsha Langfeng Metallic Material Co., Ltd.

Changsha Langfeng metallic material Co., Ltd. titanium carbide products advantages:
Using high purity titanium oxide and high purity carbon black as raw materials, to ensure the purity of titanium 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.

Titanium carbide powder be applied in high temperature thermal spraying materials, welding materials, rigid film materials, military aviation materials, cemented carbide and metal ceramics.

Adding 6-30% titanium carbide powder into WC-Co serious tungsten carbide products, could form TiC-WC solid solution, then enhance the alloy’s performance in glowing red, high hardness, oxidation resistance, corrosion resistance and so on, more suitable for processing steel than WC-Co tungsten carbide. Widely application in tungsten carbide cutting tools products.
Also we can produce cemented carbide without tungsten using Ni-Co alloy to enhance the cutting speed and precision and smoothness of processed component.
### Chemical Composition (%)

<table>
<thead>
<tr>
<th>GRADE</th>
<th>Total Carbon</th>
<th>Free Carbon</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Nb</td>
<td>Fe</td>
</tr>
<tr>
<td>LF-TiC</td>
<td>≥19.1</td>
<td>≤0.30</td>
</tr>
</tbody>
</table>

Particle size: 0.5-500 micron, 5-400 mesh. Particle size and chemical composition are modified on request.

### 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 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.