A WIDE RANGE OF HIGH PURITY PRODUCTS

A WORLD EXPERT in materials and solutions for high temperature processes

A GLOBAL PLAYER in the Semiconductor Industry

Mersen offers to OEM and electronic component makers an innovative and wide range of smart and cost effective high temperature graphite based solutions. Above all, Mersen’s unique ability to control graphite’s natural porosity by impregnation allows its customers to manufacture and to process defect free materials and components.

PURITY ASH CONTENT (ppm)

Unpurified<br>Al B Fe CA Cu Mg Ni Ti V Si Pb Sn Mo W Zn Cr Total<br>&lt;5 ppm &lt;0.2 &lt;0.8 &lt;0.5 &lt;0.5 ND ND &lt;0.1 ND &lt;0.1 &lt;0.5 ND ND ND ND ND ND 2.7

Purified<br>Al B Fe CA Cu Mg Ni Ti V Si Pb Sn Mo W Zn Cr Total<br>&lt;20 ppm &lt;0.5 &lt;2 &lt;2 &lt;2 &lt;0.5 &lt;0.2 &lt;0.5 &lt;0.1 &lt;0.1 &lt;0.5 ND ND ND ND ND ND 11

ND - Not detected. The above values are typical and are subject to change. Brand name: PT (Europe) or CX (USA) for &lt;20 ppm.

Mersen’s clean room packaging allows for straight use in customer’s clean rooms. High purity graphite grades with small grain size ensure that no particle contamination occurs in ultra high vacuum.

Mersen carbon offers innovative contamination to a minimum with appropriate additional treatments, from outgassing, to closing analysers, graphite’s natural porosity by impregnation. Gas tight, to hermetic coatings, are among specialties of Mersen to prevent uncontrollede pollution.

Mersen is qualified as a supplier for spare parts used in the electronics industry from polysilicon production equipment to single crystal growing furnaces, wafers, reactors/CVD reactors, dry etchers, ion implanters, photolithography, metal and resistor making furnaces, ceramics analysers...

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FROM SEMICONDUCTOR MATERIAL MAKING

... TO WAFER PROCESSING

FUNDAMENTAL REASONS FOR YOU TO GET THE BEST VALUE FROM THE BEST SOLUTION:

CMOS and electronic component makers have 6 good fundamental reasons to order Mersen’s graphite-based products for their high Temperature applications.

1. Mersen knows how to tune their performance to the fastest thermal shocks, while choosing the adequate level of pyrographite, as well as the suitable process to create the most adequate microstructure.

2. To shorten customer process time, Mersen offers a wide range of thermal expansion coefficients 

3. Mersen’s graphite compounds, with their steady and reliable behavior versus temperature, interface easily in systems in accordance with even demanding dimensional requirements.

4. Mersen’s low contact resistance and high thermal radiation prevent any risk of electrical malfunctions Niss leterial or gas flow patterns.

5. Mersen’s graphite materials offer excellent electrical conductivity, in your systems to secure the most reliable grounding, to create the highest accelerating power or the most effecient resistive or inductive heating. Selection of purified iso-molded grades with the correct microstructure guarantees a safe electrical contact.

6. Mersen’s graphite materials are the best choice best electrical conductivity.

Mersen puts chemical reactions with its graphite and C/C product range under control for any given electrical at high temperature, with the most aggressive etchants, making the best graphs and traces excepted results to its customers.

Resistance to oxidation can be drastically increased with optimal treatments and coatings, modifying or maintaining up to low electrical resistivity.

Comparison of thermal conductivities

Comparison of electrical conductivities

Mersen materials cannot electricity in your systems to secure the most reliable grounding, to create the highest accelerating power or the most efficient resistive or inductive heating, thanks to its solid foamed structure.

Most of the features offered by Mersen’s graphite-based products have high service to value ratio. They are a cost-effective solution compared to most refractory metals. Baring in mind, these graphite materials are produced by the worldwide leader Mersen in large quantities, through a lean organization at a lowest cost and according to the highest quality.

Mersen is a worldwide group, and is a local partner to every customer, offering a total service and quick delivery to every customer throughout the world.
**From Semiconductor Material Making**

<table>
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<tr>
<th>Property</th>
<th>Graphite</th>
<th>Pyrocarbon</th>
<th>Carbon</th>
<th>Vitreous SiC</th>
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<td>10⁻¹⁰ cm²/s</td>
<td>10⁻¹⁰ cm²/s</td>
<td>10⁻¹⁰ cm²/s</td>
<td>10⁻¹⁰ cm²/s</td>
</tr>
<tr>
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<td>2318 W/m/°C</td>
<td>2318 W/m/°C</td>
<td>2318 W/m/°C</td>
<td>2318 W/m/°C</td>
</tr>
</tbody>
</table>

**Composition of thermal conductivities**

1. Mersen puts chemical reactions with its graphite and C/C product ranges under control for any gaseous environment at high temperature, with the very effective extraction, most adequate material selection and material-related attributes in the customer's system.

2. Resistance to oxidation can be drastically improved with optimized treatments and coatings, modifying pyrocarbon leading up to inert tightness.

3. Mersen materials carry the electricity in your systems to secure the most reliable grounding, to create the highest accelerating power or the most efficient resistance at the highest efficiency, which can be achieved in a multi-dimensional grade spectrum.

4. Most of the functions offered by Mersen graphite-based products have a high service to value ratio. They are a cost-effective solution compared to using refractory metals. However, in combination, these graphite materials can be produced by the worldwide leading Mersen in large quantities, through a new organization at a lowest cost and according to the highest quality.

5. Mersen is a worldwide group, and as a local partner to every customer in the world, offering state transport and quick delivery to every customer throughout the world.

---

**Fundamental Reasons for You to Get the Best Value from the Best Solution**

CVD and electronic component makers have 6 good fundamental reasons to order Mersen graphite-based products for their high-temperature applications.

1. When most of the refractory metals contaminate and collapse at high temperatures, Mersen’s graphite, as the most refractory valve material, stands extraterritorially in high-temperature processes.

2. Mersen a very strong material (Specific flexural strength typical of temperature).

3. AEROLOR components, with their steady and reliable behavior versus temperature, interface stability in systems in accordance with even demanding dimensional requirements.

4. Mersen order range of thermal expansion coefficients meet most interface requirements.

5. Mersen knows how to take their performance to the hallowed thermal shocks, while choosing the adequate level of pyrocarbon, as well as the subtle process to create the most adequate microstructure.

6. To shorten customer process time, Mersen features a range of special light and strong graphite and C/C products, lowering limits to be faced and their setting fixed up and cost balanced.
... TO WAFER PROCESSING

FUNDAMENTAL REASONS FOR YOU TO GET THE BEST VALUE FROM THE BEST SOLUTION:

1. Mersen puts chemical reactors with its graphite and C/C product range under control for any gaseous reagent at high temperature, with the most aggressive etchants, most demanding mechanical and thermal environments of the industry. Mersen can help you choose the right range of high-temperature products.

2. Resistance to exfoliation can be drastically increased with optimal treatments and coatings, modifying and improving its electrical properties.

3. Mersen’s graphite compounds, with their steady and reliable behavior versus temperature, interface compatibility in systems, and even demanding dimensional requirements.

4. Mersen’s materials can be easily adapted to your systems to secure the most reliable grounding, to create the highest accelerating power, or at the cost of an investment-related lifetime. Mersen’s materials are developed for any environment.

5. Mersen is a worldwide group, and is a local partner to every customer, offering state-of-the-art service and quick delivery to every customer throughout the world.

FROM SEMICONDUCTOR MATERIAL MAKING

CVD and electronic component makers have 6 good fundamental reasons to order Mersen graphite-based products for their high-temperature applications.

- When most of the industry needs to control and collapse at high temperatures, Mersen’s quality graphite, as the most superior reactive material, easily demonstrates its high-temperature resistance.
- Mineral a strong material, its excellent thermal properties and its excellent electrical properties ensure the correct electrical performance.
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Graphite is a highly reactive material for many applications. Its low electrical resistivity and low thermal conductivity make it an ideal material for high-temperature applications.

<table>
<thead>
<tr>
<th>Property</th>
<th>Graphite</th>
<th>Carbon</th>
<th>Iron</th>
<th>Steel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Density (g/cm³)</td>
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<td>1.8</td>
<td>7.8</td>
<td>7.8</td>
</tr>
<tr>
<td>Thermal Conductivity (W/mK)</td>
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<td>46</td>
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<tr>
<td>Electrical Resistivity (Ω·m)</td>
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<td>9</td>
</tr>
<tr>
<td>Transparency</td>
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<td>Poor</td>
<td>Poor</td>
<td>Poor</td>
</tr>
<tr>
<td>Hardness</td>
<td>5-6</td>
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<td>5-6</td>
<td>5-6</td>
</tr>
</tbody>
</table>

Table: Graphite vs Other Materials

- Mersen guarantees the application of the European Community and its graphite and C/C product range under control: chemical reactions with its graphite and C/C product range under control.
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Mersen graphite compounds, with their steady and reliable behavior versus temperature, interface 
depend on systems in accordance with ever demanding dimensional requirements.

Mersen knows how to take their performance to the highest thermal shocks, while 
choosing the adequate level of pyrographite, as well as the suitable process to create the
most adequate microstructure.

To shorten customer process times, Mersen offers a range of special light and strong
graphite and pyrocarbon (CC) products, lowering mass to be treated and their casting 
fixed-up cost and yield.

Mersen is a worldwide group, and is a local partner to every customer 
offering effective scale options and quick delivery to every customer 
throughout the world.

Mersen graphite and pyrographite products have

Resistance to oxidation can be drastically increased with optimal treatments and coatings,
modifying and creating barriers up to extreme conditions.

Most of the solutions offered by Mersen graphite-based products have

Resistance to high-temperature processes. Mersen's high

quality and formation grades, graphite-based products ensure the most efficient possible.

Resistance to mechanical stress is drastically increased with optimal treatments and coatings,
modifying and creating barriers up to extreme conditions.

Mersen provides engineering solutions to help
customers' trouble and design the best solution to perform the desired function.

Its affiliates provide close service and quick delivery to every customer.

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Mersen puts chemical reactions with its graphite and C/C product range under control 
for any glass deposition at high temperature, with the best aggregation structure, 
most adequate level of pyrographite, and perfect microstructure.

Response to oxidation can be drastically increased with optimal treatments and coatings,
modifying and creating barriers up to extreme conditions.

Mersen's quality graphite, as a most reliable source of energy, starkly 
extraordinary at high-temperature processes.

When most of refractory metals contaminate and collapse at high temperatures, Mersen's quality graphite, as 
for most reliable source of energy, starkly extraordinary at high-temperature processes.

Grades

Carbon
Al2O3
Steel
Graphite
Kovar

Thermal conductivity

0 100 200 300 400

0 20 40 60 80 100 120 140

Comparison of thermal conductivities

0 10 20 30 40

2000 2500 3000

Resistance to high-temperature processes. Mersen's high quality and formation grades, graphite-based products ensure the most efficient possible.

Future trends are for lighter and more effective solutions to help customers' trouble and design the best solution to perform the desired function.

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### Specialties

<table>
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<th>Grade</th>
<th>Density</th>
<th>Grain Size</th>
<th>Porosity FS</th>
<th>CTE</th>
<th>Resistivity</th>
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<th>ø915x760 W/m°C</th>
<th>1030x1080x325 W/m°C</th>
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<td>104</td>
<td>308x620x915</td>
</tr>
</tbody>
</table>

---

### Ultra High Purity

For your wafer quality get our Ultra High Purity Graphite.

Mersen offers to OEM and electronic component makers an innovative and wide range of high purity graphite products. Mersen's purified graphite allows its customers to manufacture and to process defect free materials and components.

---

### A WIDE RANGE OF HIGH PURITY PRODUCTS

- **Purified graphite**
- **Silicon Carbide**
- **Flexible graphite**
- **Rigid carbon insulation**
- **Carbon / Carbon**
- **Pyrocoating and bulk pyrocarbon**
- **Glassy carbon**
- **Vitreous carbon impregnation**
- **Flexible graphite**

---

### Reference

- **Thickness (mm)**
- **Width (mm)**
- **Density (g/cm³)**
- **Emissivity**
- **Coefficient**

---

### Contact

**MERSEN USA BN Corp.**
Bay City, MI 48708, USA
900 Harrison Street
Fax: +1 989 895 77 40
Tel.: +1 989 894 29 11

**Contact in North America**

**MERSEN France Gennevilliers SAS**
F-92231 GENNEVILLIERS CEDEX
Gennevilliers, France
E-mail: semicon@mersen.com
Fax: +33 (0)1 41 85 45 11
Tel.: +33 (0)1 41 85 45 77

**Contact for Europe**

**MERSEN Kunshan Co. Ltd.**
Kunshan, Jiangsu Province, #29 South Taihu Road,
215334, PR CHINA
Fax: +86 512 5763 9811
Tel.: +86 512 5763 9808

**Contact for Asia**

**A GLOBAL PLAYER**

www.mersen.com
A WIDE RANGE OF HIGH PURITY PRODUCTS

**Purified graphite**

<table>
<thead>
<tr>
<th>Grade</th>
<th>Density (g/cm³)</th>
<th>Thermal Conductivity at 400°C (W/m·K)</th>
<th>Thermal Conductivity at 2000°C (W/m·K)</th>
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<td>4.1</td>
<td>100</td>
</tr>
<tr>
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**Flexible graphite**

- Pyrocoating and bulk pyrocarbon
- Silicon Carbide coating
- Vitreous carbon impregnation
- Carbon / Carbon AEROLOR®
- Glassy carbon

**Specialties**

- Purified graphite
- Silicon Carbide coating

**Electronics**

- Innovative solutions for the semiconductor industry

**For your wafer quality get our Ultra High Purity**

Mersen offers ultra high purity graphite products to OEM and electronic component makers. Our innovative and wide range of ultra high purity graphite-based solutions, enable its customers to manufacture and to process defect-free materials and components.

Mersen’s clean room packaging allows for straight use in customer’s clean rooms.

High density graphite grades with small grain size ensure that no particulate contamination occurs in ultra high vacuum.

Mersen drastically reduces molecular contamination to a minimum with appropriate additional treatments, from outgasing, to closing, to outgasing in clean rooms.

Gas tight to hermetic coatings, are Mersen specialties.

Kunshan, Jiangsu Province, Kunshan Development Zone, MERSEN Kunshan Co. Ltd.

Contact for Asia

Holytown, Scotland UK

MERSEN Holytown Ltd.

Contact in Europe

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Holytown, Scotland UK

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