



Makran

M A K R A N



Industrial Products Catalog Pistachio Shell Carbon & Wood Ash

Makran Introduction

We are a direct manufacturer and high-tonnage supplier of carbon-based and mineral products. Relying on our R&D team, our products are engineered and customizable to meet the specific requirements of each industry.

We consider ourselves your business partner, not just a supplier.

Prior to shipment, a custom batch analysis of the ordered product is provided for customer approval.

Regulatory Information:

Our products not classified as hazardous under GHS.

Complies with general industrial safety standards for non-hazardous carbon materials.

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Pistachio Shell Carbon

(Ordinary – Non-Activated)



Key Features

- Produced at temperatures ranging 350–900°C
- Adjustable properties: fixed carbon, density, porosity, ash content
- Available in custom sizes and granulations.
- Fully engineered product based on customer requirements.
- If higher adsorption capacity is required, this product can be engineered as a precursor for activated carbon.



Applications & Recommended Usage of Pistachio Shell Carbon

Agriculture

Applications:

Soil amendment, water retention improvement, soil aeration, reduced chemical fertilizer usage

Recommended dosage: 1–5 tons per hectare (depending on soil texture and analysis)

Instructions for use:

1. Perform soil analysis before application
2. Optional pre-moisturization or mixing with compost
3. Spread evenly over the soil surface
4. Incorporate to a depth of 15–20 cm
5. Initial irrigation to activate porosity structure



METALLURGY

Applications:

Carbon source for reduction, smelting aid, cost-effective coke replacement

Recommended dosage: 3–8% of furnace charge (depending on charge analysis)

Instructions for use:

1. Check fixed carbon and ash content before charging
2. Gradually mix into raw materials
3. Maintain appropriate combustion temperature (700–900°C for higher fixed carbon)
4. Monitor final carbon content in molten metal



WATER TREATMENT & FILTRATION (PRE-FILTRATION MEDIA)



Applications:

- Pre-filtration media
- Partial adsorption of light organic compounds
- Reducing activated carbon usage in combined filtration systems

Recommended dosage: 10–30% of filter bed volume or 20–60 kg per m³ of tank (depending on system design)

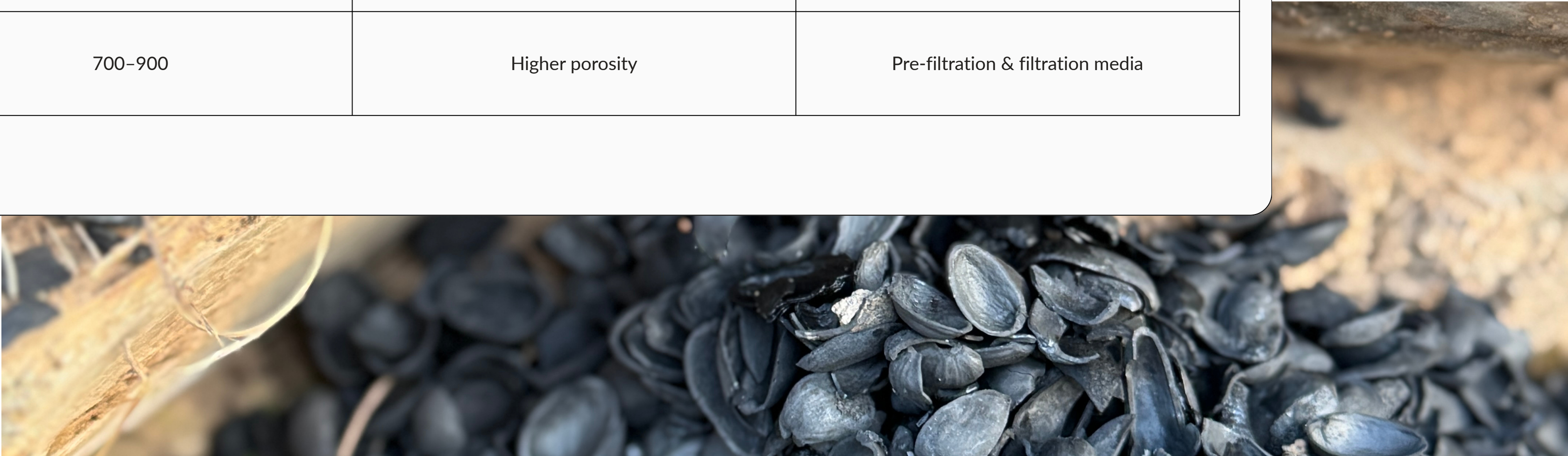
Instructions for use:

1. Select particle size according to filter design
2. Remove surface dust before use (sieving or air blowing)
3. Place in lower or middle layers of multi-stage filters
4. Monitor pressure drop after startup
5. Replace periodically based on saturation or pressure increase



Production Temperatures & Applications

Production Temp (°C)	Key Feature	Higher porosity
350–500	Semi-carbon structure	Agriculture
500–700	Higher fixed carbon	Light metallurgy
700–900	Higher porosity	Pre-filtration & filtration media



WOOD ASH



Key Features

- Rich in potassium, calcium, and minerals
- Soil pH regulator
- Improves acidic soil structure
- Composition can be adjusted based on farm requirements



APPLICATIONS & RECOMMENDED USAGE

Agriculture

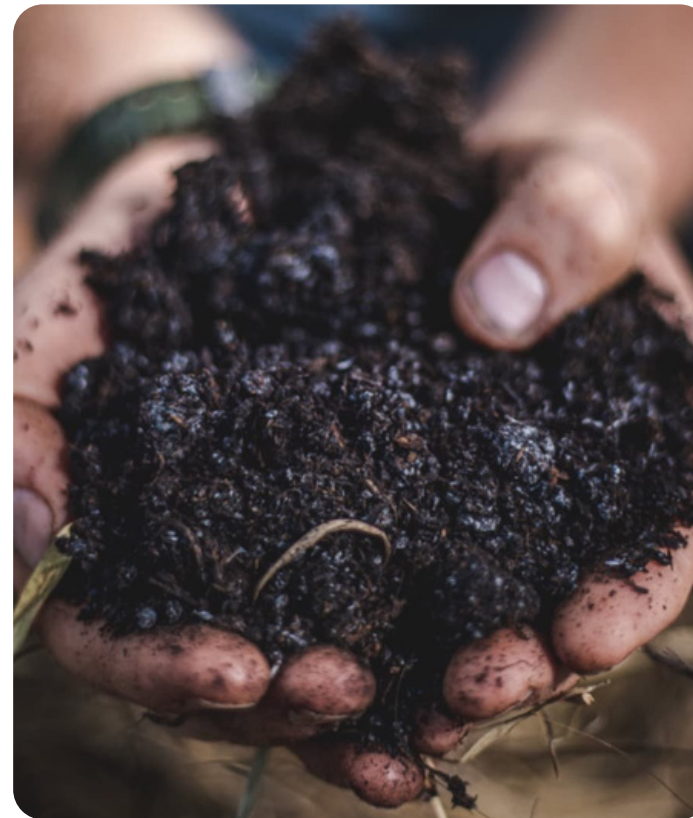
Applications:

pH adjustment of acidic soils, natural potassium source, reduced fertilizer usage

Recommended dosage: 0.5–2 tons per hectare (after soil analysis)

Instructions for use:

1. Perform soil analysis before application
2. Avoid use on alkaline soils
3. Spread evenly over the soil surface
4. Incorporate to a depth of 15 cm
5. Maintain at least 2 weeks gap before applying nitrogen fertilizers



OUR COMPETITIVE ADVANTAGES

- Direct supply with high-tonnage capacity
- Engineered and customizable production for each industry
- Custom batch analysis before shipment
- Continuous R&D to improve application and performance
- Collaborative industrial partnership to solve operational challenges

OUR PARTNERSHIP PHILOSOPHY

We are not just product sellers.

We are your business and R&D partner.

- We welcome your operational challenges for research and problem-solving.
- We engineer and adjust the product according to your industrial needs.
- Our goal: challenge-free solutions and higher operational efficiency for all industries.



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