

Protection and Control group

Excellence in Power Insulators & Sustainable Biomass Solutions

Protection and Control group (PANDC), is a proud Egyptian private sector company with a strong foothold in two specialized industries. Since our inception, we have been committed to quality and precision in manufacturing low and medium -voltage porcelain insulators. Leveraging our industrial expertise and infrastructure, we have successfully expanded into the production of premium biomass wood pellets from our strategic location in the Shebin El-Kom Free Zone, Menoufia Governorate.

This profile focuses on our Wood Pellet division, detailing our commitment to providing a reliable, high-quality, and sustainable energy solution for the European market.

Our Facility: The Heart of Production

Our wood pellet production is housed within our state-of-the-art facility located in the Shebin El-Kom Free Zone. This strategic location offers logistical advantages for efficient processing and export. Our plant is dedicated to maintaining rigorous quality control from raw material intake to the final packaged product.

The PANDC Wood Pellet: Production Process

We believe that superior quality comes from a meticulous and controlled process. Here is an overview of our production line:

1. Sourcing & Raw Material Inspection

Our process begins with sourcing high-quality wood sawdust from the local Egyptian market. Before any material enters our facility, it undergoes strict laboratory testing. We specifically analyze and verify:

- **Ash Content:** Ensuring it matches the required specifications for our target grades.
- **Moisture Level:** To guarantee optimal combustion and pellet durability.
- **Particle Size:** To ensure efficient processing through our machinery.

Only sawdust that passes our stringent quality checks is approved for production.

Head Office & Main electrical porcelain insulator factory : Quasna industrial zone , El-Hadidi Tower , 7th floor, El-Menoufia-Egypt ,
Second Factory : Free zone -Shebin El Kom city- El-Menoufia-Egypt ,
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2. Preparation & Feeding

The approved raw material is fed into a mechanical vibrating feeder. This crucial first step efficiently separates and removes any oversized particles, ensuring a consistent material flow into the next stage.

2. Ferrous Metal Removal

The screened sawdust then passes over a powerful magnetic separator. This system guarantees that the material is completely free from any ferrous metal contaminants, protecting our machinery and ensuring the purity of the final product.

3. Pelleting

The purified and prepared sawdust is transported via conveyor belts to our high-capacity pellet mill. Here, it is compressed under high pressure to form premium pellets with a uniform diameter of **6 mm (± 1 mm)**, in line with international standards.

4. Cooling & Quality Assurance

Immediately after pelleting, the hot pellets are transferred by conveyor to a dedicated cooling hopper. During this critical transport phase, our quality control team

systematically extracts periodic samples for continuous testing. This ensures that every batch meets our strict internal standards for durability and density.



5. Final Testing & Packaging

Once cooled and approved, the pellets are conveyed to the automatic bagging machine. We package our pellets in durable, suitable bags with a minimum net weight of 15 kg per bag.

6. Storage & Dispatch

The filled 15 kg bags are professionally stacked on sturdy wooden pallets and transferred to our dedicated, clean, and dry storage warehouses. From there, they are ready for efficient loading and shipment to our customers.

Our Product Specifications

Our wood pellets are produced in full compliance with international quality benchmarks, ensuring a consistent and high-performance fuel source suitable for the European market.

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Specification	Grade A	Grade B (Industrial/Standard)
Diameter	6 mm (\pm 1 mm)	6 mm (\pm 1 mm)
Net Calorific Value (NCV)	17 - 19 MJ/kg (As received)	16 - 18 MJ/kg (As received)
Moisture Content	< 10%	< 10%
Ash Content	< 2%	< 3% - 6%
Packaging	15 kg bags / Palletized	15 kg bags / Palletized
Origin	Shebin El-Kom Free Zone, Egypt	Shebin El-Kom Free Zone, Egypt

Our product also meets international standards for Mechanical Durability and Bulk Density. Detailed technical data sheets are available upon request for serious buyers.

Why PANDC?

- **Proven Industrial Backbone:** We are not a startup; we are an established industrial company with years of experience in manufacturing, quality control, and logistics.
 - **Commitment to Quality:** Our rigorous testing protocol, from raw material inspection to final product sampling, ensures consistent and reliable quality that meets international standards (16.5 - 19 MJ/kg, <10% moisture).
 - **Strategic Location:** Operating from the Shebin El-Kom Free Zone facilitates a streamlined process for international shipping.
- Reliable Supply:** Our dedicated production line and storage capacity are designed to meet the demands of the European market consistently.

Contact Us

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We are ready to build a lasting partnership based on trust and quality. For inquiries, orders, or to request our detailed technical specification sheet, please contact us.

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