WHAT ARE COAL-BASED CARBON PRODUCTS?

High-performance, high-value carbon materials used to manufacture or improve products integral to our society and everyday life.

ADVANTAGES OF COAL

• Coal’s unique properties and high-carbon density offer significant advantages over other carbon-based feedstocks.
• Coal is abundant, domestic and enables low-cost, high-volume production of carbon materials and products.

R&D ACTIVITIES

NETL’s Advanced Coal Processing Program works with national laboratories, universities, and community and industry partners to develop new materials and manufacturing processes that utilize domestic coal to produce advanced carbon products.

CHALLENGES

✓ Taking advantage of the natural variations in domestic coals while minimizing the impacts of coal impurities
✓ Controlling, optimizing, and tailoring end-product performance

RESULTS AND ACCOMPLISHMENTS

Coal-based nanomaterials improve:
• Energy consumption
• Processing speeds
• Durability
• Manufacturing costs of computer memory device

R&D projects enable new coal-derived building material technologies and products:
• Roofing tiles
• Decking boards
• Composites
• Other building products

ADVANCED COAL PROCESSING CONTACTS

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