Austin Black® 325

Efficiency, Functionality and Sustainable Advantages

HARKE
Coatings & Polymers



Coatings, Plastics

BENEFITS

- Natural raw material
- Low specific gravity of 1.3
- Fast dispersion/mixing
- No moisture absorption

YOUR PARTNER FOR PIGMENTS & FILLERS

HARKE Coatings & Polymers
Your Partner for Pigments & Fillers

AUSTIN BLACK® 325

CFI CARBON PRODUCTS

HARKE Coatings & Polymers

Discover Austin Black® 325 by CFI Carbon Products

For over three decades, CFI Carbon Products, formerly known as Coal Fillers Inc., has been a stalwart in the industry, specializing in the precision milling of high-quality bituminous coal. Originating in Tams, West Virginia, their journey began with a commitment to excellence and has since expanded to Bluefield, Virginia, where the state-of-the-art production facilities ensure uncompromising quality.

At CFI, they take pride in their comprehensive control over every stage of production. From mining to processing and packaging, the fully-integrated approach guarantees consistency and reliability. Their dedication allows us to deliver Austin Black® 325 to discerning markets worldwide. Whether for rubber, plastics or coatings applications, our material is trusted for its superior performance and versatility.

In response to diverse customer needs, CFI offers a range of packaging options, including custom pre-weight bags tailored to individual recipes. This flexibility underscores our commitment to providing solutions that meet specific industry requirements.

One of the Most Interesting Pigment and Mineral Fillers

Produced by our partner CFI Carbon Products (USA), Austin Black® 325 is one of the most interesting pigment and mineral fillers available. It has a specific gravity of 1.3. When compared to Carbon Black with a 1.8 specific gravity and other mineral fillers at 2.6 to 2.9 specific gravity, Austin Black® can significantly reduce compounds costs.

Austin Black® has a platy structure and a ph value of 7.0. Its chemical and ultraviolet resistance should enhance the properties of most rubber and plastic compounds. It will not absorb moisture and can improve air retention and moisture permeation properties in rubber compounds. These facts, plus excellent dielectric properties make Austin Black® ideal for compounds requiring good dielectric properties.

Chemical Name: Bituminous Coal
CAS No.: 308062-82-0

Innovation Meets Performance: Austin Black® 325
The Gamechanger in Rubber Compounding!

In an industry where time, cost, and quality determine success, Austin Black® delivers on all fronts: efficiency, functionality and sustainable advantages – with no compromises. **Faster. Smarter. Cleaner.**

Austin Black® disperses effortlessly in natural and synthetic rubbers as well as plastics. Its unique feature: the naturally occurring volatile content (17–20%) contains oils that act as an internal plasticizer and dispersing aid – accelerating mixing and enhancing the entire compounding process. Less agglomeration, more productivity.

Ideal as a Starter. Essential in the Mix.

Smart compounding starts here: adding Austin Black® early in the mix allows you to harness its full dispersing potential – while cutting costs at the same time.

More than a filler –
Austin Black® is a performance booster.

If you're aiming for innovation, process stability and cost-efficiency, there's no way around Austin Black®.

Austin Black® – Ready to Reinvent Rubber.

Performance That Connects:

- When combined with HAF or FEF carbon blacks, Austin Black® delivers better mechanical properties than thermal or SRF blacks – and significantly reduces compound costs
- Most rubber compounds can be blended with 5-10 parts Austin Black® without affecting performance – yielding up to 3-4% cost savings
- Acts as a processing aid - eliminates air entrapment, reducing bubbles and blisters
- Excels in electrical insulation applications where traditional fillers deteriorate after water immersion
- As little as 20 parts can eliminate the unpleasant odor from Di Cup cure systems
- Helps minimize migration in rubber-to-metal bonded parts





Shoe soles with Austin Black® 325 as filler and for coloring



Economical filler for Plastic Masterbatches

Specification

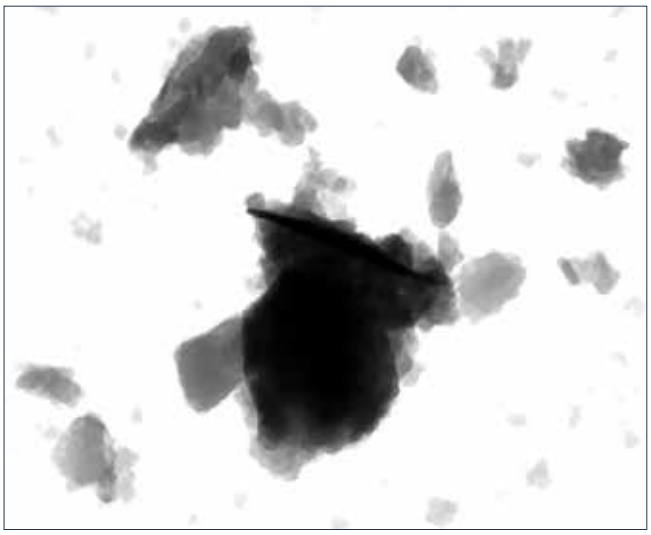
Parameter	Values	Test	Method
Specific Gravitiy	1.31 ± 0.03	ASTM	D1817-01
Carbon, Content	77.00% typically	-	-
Volatiles	20.00% max.	ASTM	D3175
Moisture (Heat Loss)	1.00% max.	ASTM	D3302
Ash	7.50% max.	ASTM	D3174
Sulphur	0.90% max.	ASTM	D3177
pH	7.00	ASTM	D1521
Particle Size	99% through 325 Mesh-	-	Screen analysis

Applications

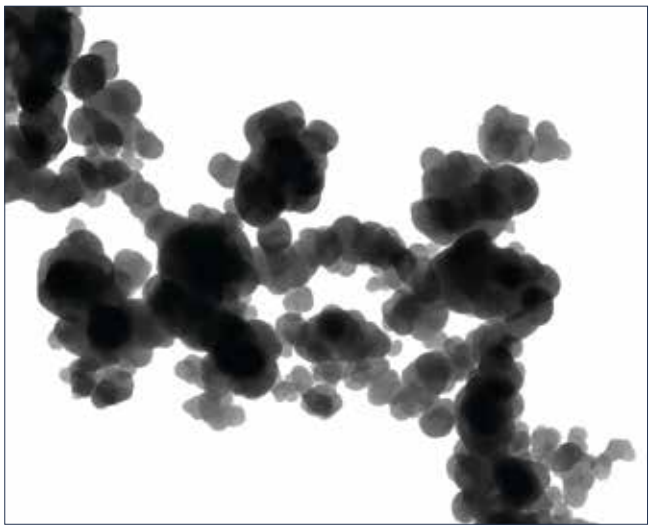
Rubber	Tires, belts, hoses, gaskets and seals, commercial roofing, mechanical goods, caulks
Plastics	Polyolefin concentrates, PVC plastisols, Masterbatches
Coatings	Adhesives, metal protective coatings, mold release agents, paints, stains, lacquers

Structure

One difference of **Austin Black® 325** compared with regular Carbon Black is the structure. The Carbon Black particles are forming aggregates as you can see in the right picture, our Austin Black® 325 has a platy structure what´s offering beside a good UV resistance a very good gas barrier in different formulations.



Austin Black® 325 Structure at 0.2 µm



Carbon Black N7xx Structure at 0.2 µm

Structure/Surface

Properties	Typical Values
Surface Area (BET) Nitrogen Testing	(M2GM)/approx.
N2SA = Total Surface	8.97
STSA = External Surface	-
Iodine Absorption (g/kg)	31.4
Oil Absorption DBP	42.7
Tint Strenght (ASTM)	11.4

Tests & Studies

Unlock the Full Potential of Austin Black® 325 Your Technical Advantage Starts Here

With its broad compatibility across a wide range of elastomers and applications, Austin Black® 325 offers more than just cost efficiency – it opens the door to smarter compounding. To support your development process, we've compiled extensive test results, performance comparisons and practical formulation ideas into a comprehensive technical brochure. Whether you're looking for inspiration, a starting formulation, or specific property benchmarks – we've got you covered.

Request your personal copy today and gain access to the knowledge that drives innovation.

Tests	
Section 1	Styrene/Butadiene Rubber
Section 2	Butyl and Chlorobutyl Rubber
Section 3	EPR and EPDM Compositions
Section 4	Natural Rubber Compositions
Section 5	Neoprene Compositions
Section 6	Nitrile Rubber
Section 7	Polyvinyl Chloride
Section 8	Reclaimed Rubber and Viton

Application Overview

Products	Type of Polymer		Advantages of Austin Black®
Tires (all types)	Inner liner compound	Halobutyl and natural rubber	▪ Used to replace some carbon black, polymer, and clay fillers ▪ Improved mixing and extrusion ▪ Improved oxygen barrier properties ▪ Reduced compound cost due to low specific gravity and low cost
	Other tire components: Side wall, bead, carcass and fabric coating	Various rubber polymers	▪ Cost reduction: Austin Black® is used as a filler to replace carbon black and rubber polymer
Automotive/ Industrial	Seals	Fluoroelastomer	▪ High temperature performance and good chemical resistance ▪ Improved mixing and reduced scorching ▪ Improved compression set ▪ Significant cost reduction
		EPDM (ethylene propylenediene)	▪ Improved mixing and extrusion ▪ Reduced cost
	Friction products (brake pads)	Not applicable	▪ Low specific gravity ▪ Good high temperature performance
	Fuel line hoses	Fluoroelastomer	▪ Good chemical resistance and gas barrier properties ▪ Cost reduction
	Belts, hoses, ducts	Various rubber polymers	▪ Low cost pigment and filler that can be substituted for polymer and carbon black
Plastics		Various black plastic such as concentrates, LDPE, MDPE, HDPE, PP, PVS, ABS	▪ Reduces the concentrate cost due to low specific gravity and low cost ▪ Used to replace some of the more costly carbon black or resin
		PVC Plastisols	▪ Cost reduction: Austin Black® is used to replace carbon black in plastisols ▪ Good gas barrier and chemical resistance
Paints and Coatings	Automotive finishes	Electro-dip primers	▪ Cost reduction
	Protective coatings	Tar based epoxy	▪ Good chemical resistance and gas barrier properties ▪ Cost reduction
Commercial Roofing		EPDM (ethylene propylenediene)	▪ Improved mixing and extrusion ▪ Cost reduction: Austin Black® is used as a filler to replace carbon black, polymer, and clay fillers, which have a higher specific gravity
		TPO (thermoplastic olefin)	▪ Improved mixing and extrusion ▪ Cost reduction: Austin Black® is used as a filler to replace carbon black, polymer, and clay fillers, which have a higher specific gravity
Sealants and Caulks		Silicone rubber, butyl, urethane	▪ Cost reduction: Austin Black® is used as a filler to replace carbon black, polymer, and clay fillers which have a higher specific gravity

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Quality Management ISO 9001

RESPONSIBLE CARE
Driving Safety & Sustainability