



Acetylene
Black



Alkylate
Fluids



Cable Flood,
Fill & Gels



Corrosion
Inhibitors



Dielectric
Fluids



Performance
Chemical Additives



Polyalpha-
olefins



Polybutenes



Refrigeration
Fluids

WHO IS SOLTEX?

Specialty Chemical Manufacturer & Distributor

- Founded in Houston, Texas in 1990
- Technical Support & Quality Assurance Labs

Operations and ASTM Laboratory Locations:

- Houston, Texas, USA
- Baytown, Texas, USA
- Bellville, Ontario, Canada

Specialized Chemicals:

- Acetylene Black
- Graphite
- Dielectric Fluids
- Performance Chemical Additives
- Polyalphaolefins
- Polybutene
- Refrigeration Fluids



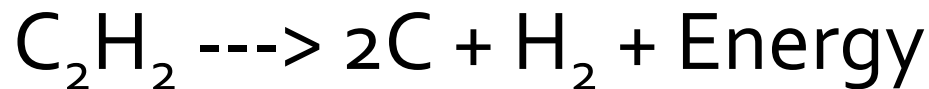
ACETYLENE BLACK

- **Specialized Acetylene Black is characterized by:**
 - High Structure, High Purity
 - High Surface Area
 - Higher Electrical Conductivity
 - Highest Degree of Aggregation
 - Crystalline Orientation
 - High Thermal Dissipation
 - Low Metal Content; Most Non-detectable
- **Acetylene Black's high purity, high structure, and electrically conductive properties make it a specialty carbon additive for battery applications.**
- **AB purity has a typical carbon content of 99.9%.**
- **Available in Powder and Granular Form**
- **Polybags and Paper Bag Packaging**

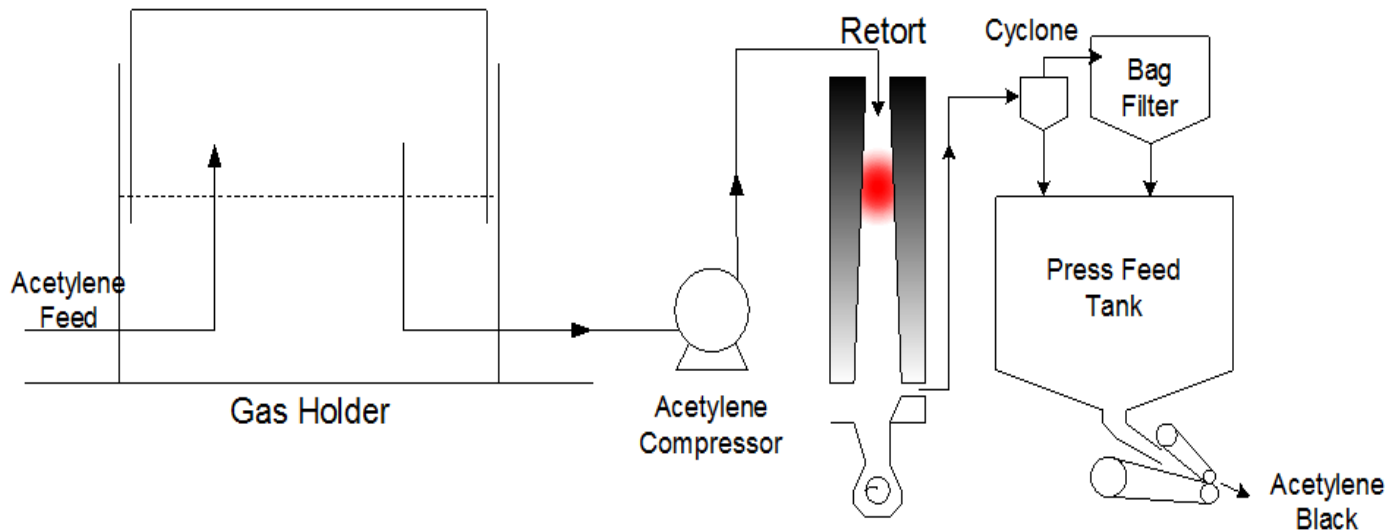


ACETYLENE BLACK

How is Acetylene Black Manufactured?



Continuous exothermic decomposition of acetylene at temperatures above 1500°C without air. The yielded carbon is separated from the hydrogen, producing a high structure, high purity acetylene black. Acetylene can be sourced from either byproduct ethylene cracker or on-purpose calcium carbide.



ACETYLENE BLACK APPLICATIONS

BATTERIES

- Zinc carbon
- Zinc air
- Lithium-ion
- Lithium polymer
- Lithium sulfur dioxide
- Lithium thionyl chloride
- Sealed lead acid

FUEL CELLS

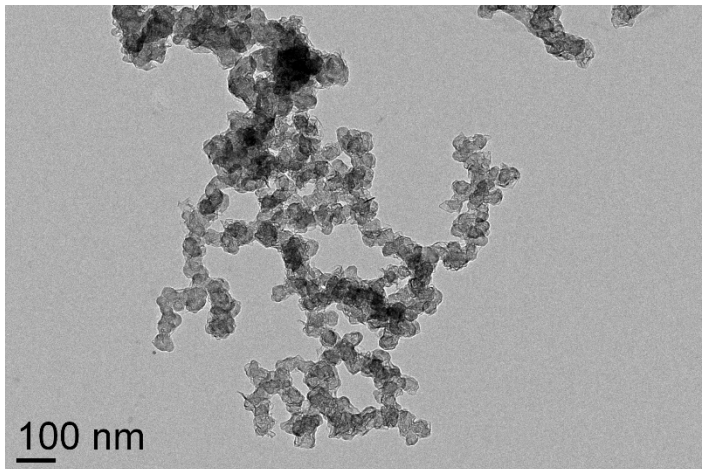
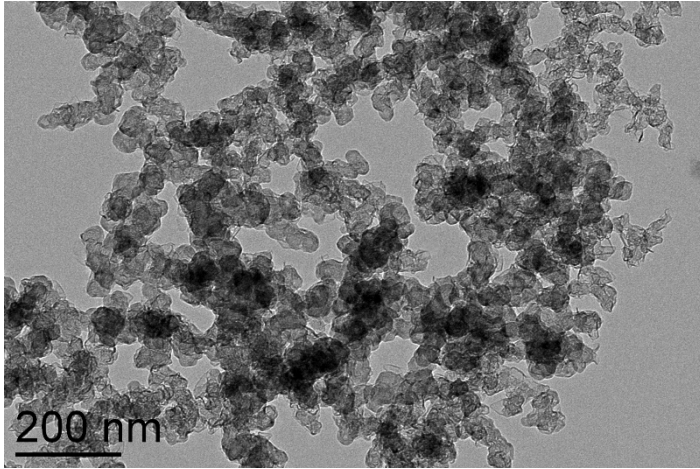
- Alkaline electrolyte
- Proton exchange membrane
- Solid polymer
- Phosphoric acid
- Molten carbonate
- Solid oxide

- AB is only 2-3% of all carbon black production.
- Approved in Military and Aerospace applications.



ACETYLENE BLACK

BENEFITS IN BATTERIES



- AB benefits from lower filler loading concentrations than carbon black.
- At equal loading concentrations, electrical conductivity is higher for AB than CB.
- AB's high purity means extremely low metals content which equates to less side reactions and less formula disruptions.
- AB's high surface area and high structure help mix and disperse in the preferred agglomerate form, forming a better electrically conductive network with many contact points.
- Acetylene black's nano-size particles integrate with Graphite's micro-size particles, improving mechanical performance and enhancing the electrically conductive network.



SOLTEX

ACETYLENE BLACK

Beyond Carbon Black

HIGH PURITY

HIGH STRUCTURE

HIGH CONDUCTIVITY

North American Supply

Fast Delivery

Any Volume

Technical Support



800-275-8580

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