

CARBON BLACKS



CABOT

creating what matters

Carbon Blacks for Lead Acid Batteries





Cabot is the world leader in carbon black

Carbon Blacks for Lead Acid Batteries

■ Cabot Worldwide

Operations in 18 countries: 42 manufacturing facilities, 8 research and development facilities, 12 technical service centers and 26 sales offices.

Revenue of \$2.5 billion in 2006.

4.400 employees, 55% outside North America.

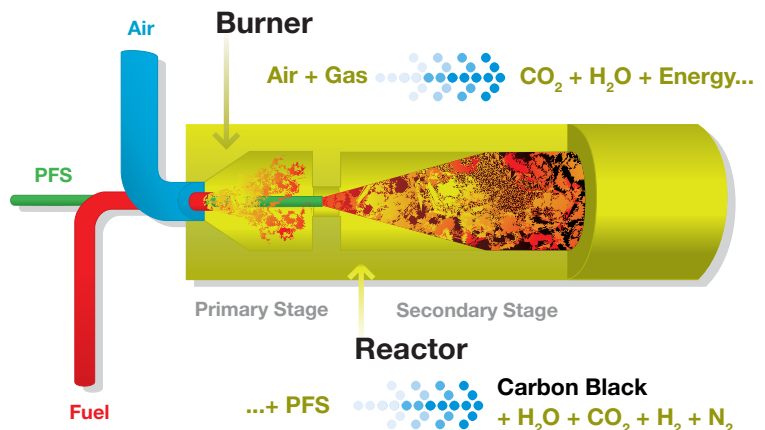
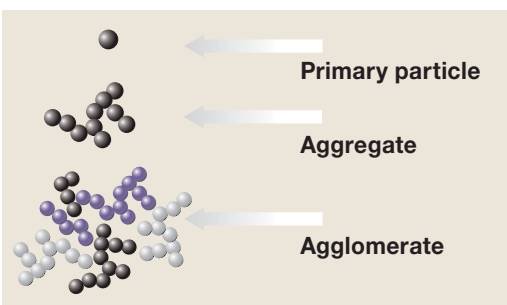
Three main businesses:

- Carbon Black
- Fumed Metal Oxides
- Supermetals



■ Carbon Black: Manufacture, Properties and Characteristics

- 99.5 % of amorphous carbon
- Crystalline structure
- Different levels of Particles size and Structures
- Black powder generated by the incomplete aromatic oil residue combustion.



■ Components Lead Acid Battery

Panel:

Pasted Grating filled with Active Material (Mass)

Mass:

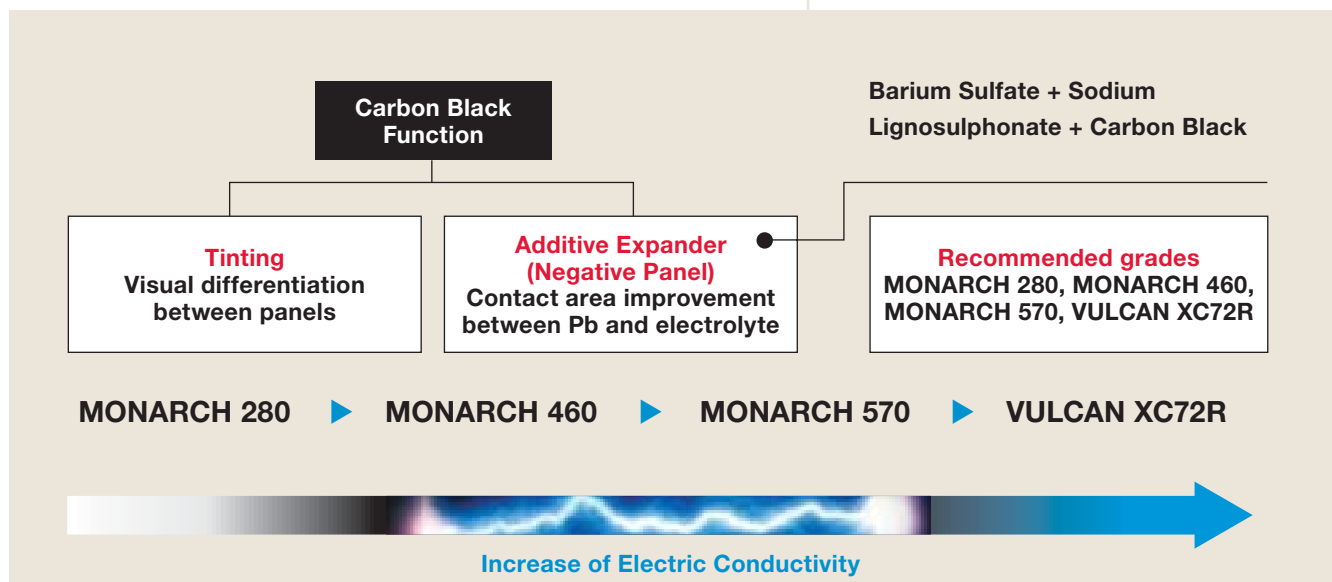
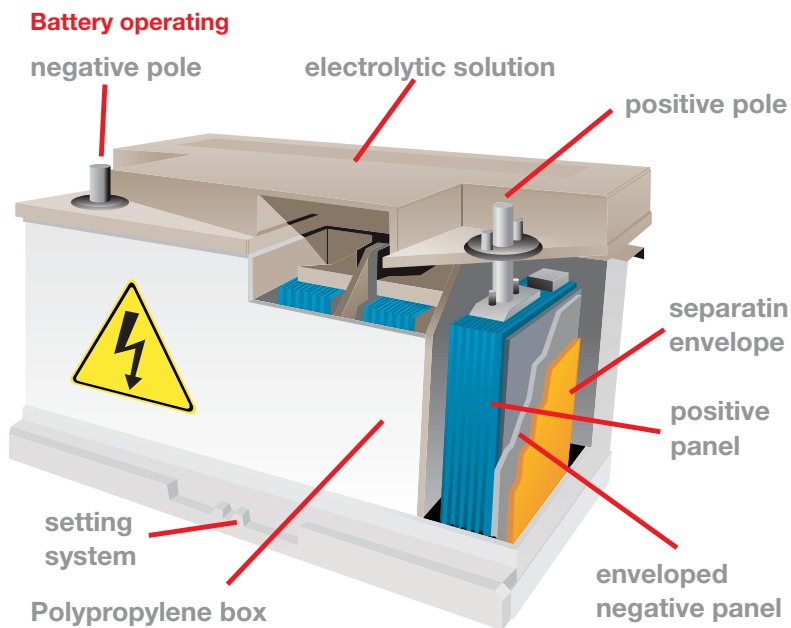
Active material Responsible for Storage energy

Active Material Panel (+):

PbO_2 (Lead dioxide)

Active Material Panel (-):

Pb (Spongy Pure Lead)



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