

# Carbon Black Processing Solutions

## IMPROVE RELIABILITY, THROUGHPUT AND ASSET VALUE WITH SUPERIOR SERVICE AND CHEMICAL APPLICATION EXPERTISE

### IMPROVING RELIABILITY

Athlon, a Halliburton Service, has a successful history of providing engineering and customized chemical solutions to Carbon Black manufacturing assets where reliability is key.

### PROCESS SERVICE CAPABILITIES:

- » De-ashing aides
- » H<sub>2</sub>S scavengers
- » Total sulfur reduction aides
- » Reactor tip antifoulants
- » Hot loop process simulator (HLPS) fouling rig studies
- » Detailed hydrocarbon lab testing
- » Performance dashboard service review
- » Slurry oil tank cleaning

### WATER SERVICE CAPABILITIES:

- » Influent water clarification
- » Reverse osmosis treatment
- » Boiler water treatment
- » Steam/condensate treatment
- » Cogeneration system treatment
- » Cooling water treatment
- » Waste water treatment
- » Equipment failure analysis
- » Detailed wet chemistry lab testing
- » Routine equipment performance/reliability monitoring



### PROPRIETARY ANTIFOULANT

Athlon's product suite consists of a proprietary antifoulant technology that has been used successfully to reduce reactor tip fouling and minimize off-spec product make. In head-to-head field trials, this chemistry outperformed other technologies commercially available, such as polyisobutylene succinic acid (PIBSA), at significantly lower dosages.

### TOTAL SULFUR REDUCTION

Athlon offers a unique chemical solution to the Carbon Black industry to achieve a total sulfur reduction in feedstock. With a combination treatment package consisting of a proprietary H<sub>2</sub>S scavenger and de-ashing aid, Athlon has successfully reduced the total sulfur content by 4 percent for one of our Carbon Black customers.

For more information, contact your local Halliburton representative or visit us on the web at [www.halliburton.com](http://www.halliburton.com)

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