

The Blackfast Process





Challenge Inc.

Blackfast

- Blacking at 70°F
- No heat distortion
- Protection Against Oxidation
- Easy to Control
- Low capital setup cost
- Convenient to set up an in-house system
- Throughput time reduced by 90%
- No disposal issues

A uniform black finish on steel components is extremely popular, adding considerably to the perceived value of the product.



Room temperature blacking

process is a simple dip operation that blackens without materially effecting dimensions. Uniform coloring over machines surfaces, threads and blind holes make it a <u>must</u> for any precision engineer.

Hot blacking converts the metal surface into an iron oxide with <u>no</u> oil absorption properties, while Blackfast provides an oil-absorbing surface.



Environmental Benefits

Able to recycle 90% of water

No hazardous waste disposal required as
filtration and replenishment is carried
out daily



Low Temperature = Safer Environment

⇒ Health & Safety

Cleaner working environment

⇒ Cost

Eliminates the need for post heat treatment

Low temp process = Energy savings

Lower energy than hot blacking process,

Substrate Finish

- Blackens cast iron without turning it red/brown as with hot blacking
- ◆ Excellent matte finish
- ◆ Dark grey appearance when dried without an oil
- ◆ Consistent surface finish. Works on materials of varying degrees of hardness

For more information contact us: 7950 Georgetown Road, Suite 200 Indianapolis, IN 46268 1.800-548-7148 Visit: www.challenge.inc.com

