



The Chemical Company

# ATS Powder Adsorbent

Lead and heavy metals adsorbent

## Product data

BASF Corporation, an industry leader in water treatment products, is dedicated to providing safe, efficient, cost effective water treatment solutions for household, industrial and water utility applications.

Designed and developed specifically for drinking water applications, BASF ATS powder is an adsorbent with a high capacity for removal of lead and other heavy metals.

### Performance benefits

- Ceramic, cationic ion-exchanger with high specificity for lead, even in the presence of competing ions like calcium and magnesium.

- Will not leach organic or inorganic residues such as aluminum.
- Nor will hardness ions, commonly found in ground water, displace the lead from the ATS-impregnated ceramic matrix, once it has been captured.
- Complies with all applicable Food, Drug and Cosmetics Acts and all relevant Food Additive Regulations.
- Certified and listed under the NSI/NSF Standard 61 for drinking water systems – health effects.

### Typical usage configurations

- BASF ATS powder adsorbents are usually incorporated into pressed or extruded carbon blocks.
- Product performance life as tested under NSF Standard 53 for a nominal 10-inch length typically will be 3,000 to 5,000 gallons.
- Larger or smaller designs can be scaled. Users are urged to carry out appropriate testing and certification as performance will vary with design and flow rate.

### About BASF

As the world's leading chemical company, BASF's portfolio ranges from chemicals, plastics, performance products, agricultural products and fine chemicals to crude oil and natural gas.

BASF's intelligent system solutions and high-value products help its customers to be more successful. BASF develops new technologies and uses them to open up additional market opportunities. It combines economic success with environmental protection and social responsibility, thus contributing to a better future.

Typical properties	
Form	Free-flowing granule
Color	White
Contents	100% active ceramic sorbent
Bulk density	~ 68 lb./cubic foot (1.09 g/cc)
Particle sizes, nominal	8-12 microns and 20-35 microns
Moisture loss @ 120° C for 16 hrs	15% maximum
Equilibrium ion exchange capacity	17 wt.%
Packaging	250 lb. fiber drums and 500 kg. supersaks

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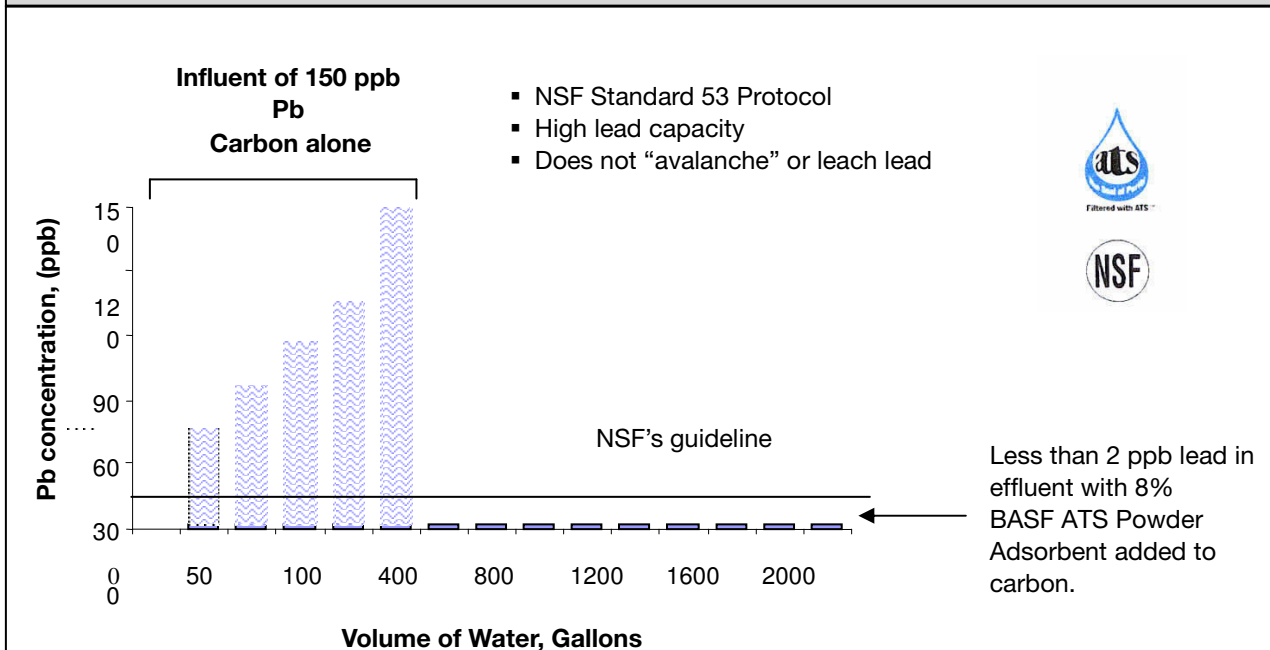
**Lead Reduction Cartridges containing BASF ATS Powder Adsorbent Performance Data:**

10" carbon filter, Full NSF 53 Protocol, 42g BASF ATS Powder Adsorbent, 0.75 gpm @ 60 psig, 20 / 20 minutes on / off operating cycle, influent lead level 150 ppb

Effluent Lead (ppb)				
Gallons	Low pH	Low Alkalinity	High pH	High Alkalinity
	#1	#2	#3	#4
Initial	2	ND	1	2
1250	3	2	ND	2
2500	3	2	ND	ND
3750	3	4	1	2
4500	2	2	5	1

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