



## CleanER™ – 90

CleanER zero valent iron (ZVI) powders are manufactured specifically for the environmental market. This innovative product line of ZVI is manufactured using cutting-edge powder metallurgical technologies.

CleanER-90 is a sponge-iron ZVI media that is uniquely available from Höganäs. This highly reactive and ultra-pure ZVI media is a virgin material produced from high purity iron ore. CleanER-90 is an excellent choice for soil blending, permeable reactive barriers (PRBs), injectable applications, or as a propellant in fracking applications.

### Sponge iron vs conventional iron

- No on-site acid wash required
- 400% greater surface area
- >98% Iron purity
- No metal, oil, or grease contamination
- Produced directly from iron ore

**For more information on CleanER and other Höganäs products, please contact your local sales representative.**

#### Höganäs Environment Solutions

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**Höganäs** 

## Lower treatment costs with CleanER™

- Customized reactivity and longevity
- Highest quality product on the market
- Specialized packaging
- Full delivery logistics and flexibility
- Largest product portfolio: 5 – 2000 µm

## Target contaminants

- Chlorinated and halogenated compounds
- Heavy metals:
  - Selenium, chromium, lead, arsenic, etc.
- Radionuclides

## Remedial applications

- High pressure soil injection
- Catalyst for ISCO injection or blending
- Synergistic enhanced biotic degradation
- Soil blending
- Permeable reactive zones

## Standard packaging

- 1 MT Super Sack
- 20 kg bags
- Special packaging available



## CleanER-90 general information

Sieve	Opening Size (mm)	Percent Passing
#60	0.250	98-100
#80	0.175	98-100
#100	0.150	95-100
#170	0.090	55-65
#200	0.075	40-50
#325	0.045	15-25

## Superior purity

Parameter	Typical Value
Carbon	<0.33%
Sulfur	<0.01%
Oxygen	<0.77%
Iron Content	>98%
Apparent Density	2.4-2.6 g/cc
D50	80-100 µm

Specifications subject to change without notice