

-100 MESH ZERO VALENT IRON

CAP Remediation offers high-quality zero valent iron in three off-the-shelf grades as well as the ability to customize particle sizes for in situ remediation projects.

Our zero valent iron is created from carefully vetted sources of cast iron and utilizes a proprietary method to pulverize the iron to exacting mesh sizes. All stages of production are subject to quality assurance testing to ensure that the highest quality standards are maintained.

CAP Remediation’s zero valent iron can be used for many ISCR remediation projects, including injection, auger placement, or permeable reactive barrier walls and several grades are offered as emulsified ZVI.

Our -100 mesh, 150 micron zero valent iron is perfect for injection in a slurry. This ZVI has a highly consistent particle size, with greater than 97% of the iron particles at or below 150 microns, creating high surface area for greater reactivity.

SPECIFICATIONS

Contaminants Treated	<ul style="list-style-type: none"> • Halogenated aliphatics (PCE, TCE, TCA) • Halogenated Aromatics • PCBs 	<ul style="list-style-type: none"> • Nitroaromatics • Metals • Halogenated herbicides
Grain Size	Mesh: -100/+325	Micron: 150
Reactivity	Rate Constant – 0.343/day	Surface Area – 4.81 m ² /g
Bulk Density	2.68 g/cm ³	167 lb/ft ³
Packaging	Drums/Buckets – 50 kg or 100 kg	Super Sacks – 500 – 1000 kg

PARTICLE SIZE DISTRIBUTION

+ 60 mesh (ISO/BS)	nil or 1% max
+100 mesh (ISO/BS)	nil to 2% max
-100/+325 mesh (ISO/BS)	approx. 90%
-325 mesh (ISO/BS)	balance

ASSAY

Carbon	2 to 2.5%
Sulfur	0.050%
Silicon	1.5 to 2%
Iron	Balance