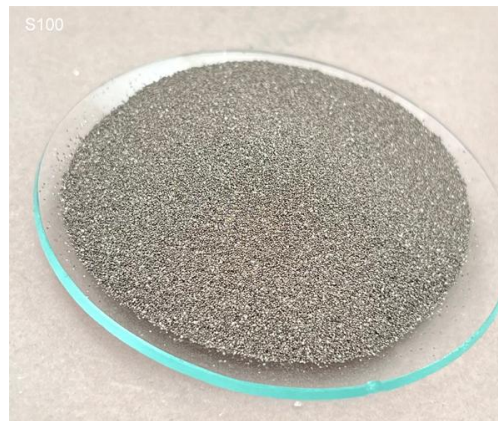


# S100N

CHEMICAL STORE, INC.

**S100N** is a coarse, dense, low carbon elemental iron powder with unique qualities, making it the product of choice for many applications. Particles of S100N measure between 150 to 200 microns and are practically free of dust. Applications include:

- ground water remediation
- Iron filing for magnetic applications
- Welding (filler metal)
- Anti-slip iron sand for epoxy floors
- Stain for concrete tiles



## TYPICAL PHYSICAL PROPERTIES

<b>Apparent density</b>	3.00 g/cm <sup>3</sup>	
<b>Flow rate (Hall)</b>	33 seconds/50g	
<b>High Consistency</b>	A stable statistically controlled manufacturing process assure lot-to-lot consistency in chemical and physical properties.	<ul style="list-style-type: none"><li>• Improves product consistency</li><li>• Increases productivity</li><li>• Reduces processing cost</li></ul>
<b>Solid and dense</b>	<b>S100N</b> is produced from molten iron, not iron ore, assuring consistently dense solid particles. Solid particles are more durable and last longer comparing to the spongy particles.	<ul style="list-style-type: none"><li>• Assures consistency of pre-mix chemistry.</li><li>• Improves quality</li><li>• Extends product life</li><li>• Promotes rapid welding</li></ul>
<b>Strong weld</b>	The high purity, high density and small specific surface area of <b>S100N</b> allow strong weld with lower chance of surface oxidation.	<ul style="list-style-type: none"><li>• Allows high speed sub arc welding</li><li>• Increases the productivity</li></ul>

## PHYSICAL AND CHEMICAL PROPERTIES

### Chemical Analysis, Typical

<b>Fe</b>	> 97 %
<b>C</b>	0.8 – 1.2 %
<b>O</b>	0.120 %
<b>S</b>	< 0.05 %
<b>P</b>	< 0.05 %
<b>Mn</b>	< 1.2 %
<b>Si</b>	> 0.4 %

### Typical Screen Analysis

U.S. mesh	Microns	Wt %
+70	>600	Trace
-70 +100	>150	95
-100	<150	3

+ : stays over/ is larger than  
- : Passes trough/ is smaller than