

S100

CHEMICAL STORE, INC.

S100 is a mesh 100, dense, low carbon steel powder with unique qualities, making it the product of choice for many applications. Particles of S100 measure between 50 to 200 microns and are practically low dust. Applications include:

- ground water remediation
- Iron filing for magnetic applications
- Creating rust effect
- Anti-slip iron sand for epoxy floors
- Stain for concrete tiles



TYPICAL PHYSICAL PROPERTIES

Apparent density	3.00 g/cm ³	
Flow rate (Hall)	33 seconds/50g	
High Consistency	A stable statistically controlled manufacturing process assure lot-to-lot consistency in chemical and physical properties.	<ul style="list-style-type: none">• Improves product consistency• Increases productivity• Reduces processing cost
Solid and dense	S100 is initially produced from molten recycled steel, 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">• Assures consistency of pre-mix chemistry.• Improves quality• Extends product life• Promotes rapid welding
Strong weld	The high purity, high density and small specific surface area of S100 allow strong weld with lower chance of surface oxidation.	<ul style="list-style-type: none">• Allows high speed sub arc welding• Increases the productivity

PHYSICAL AND CHEMICAL PROPERTIES

Chemical Analysis, Typical

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

Typical Screen Analysis

U.S. mesh	Microns	Wt %
+70	>600	Trace
-70 +100	>150	65
-100	<150	35

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