

S3001

CHEMICAL STORE, INC.

S3001 is a coarse, high purity atomized iron powder for welding and alloying applications. Used as a filler metal it significantly improves the rate of metal deposition and overall speed and rate of productivity.

TYPICAL PHYSICAL PROPERTIES

Apparent density	3.00 g/cm ³	
Flow rate (Hall)	37 seconds/50g	
High Consistency	A stable ore base and 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
High Purity	S3001 is produced from ore, not scrap, assuring a consistently pure product	<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 S3001 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	> 99 %
C	0.005 %
O	0.120 %
S	0.008 %
P	0.010 %
Mn	0.180 %
Si	0.015 %
V	0.005 %
Cr	0.050 %
Ti	0.001%
Ca	0.001 %

Typical Screen Analysis

U.S. mesh	Microns	Wt %
+30	>600	Trace
-30 +40	>425	2
-40 +100	>150	95
-100	<150	3

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