CHESAPEAKE MINERALS™
A STEWART COMPANY
The Elements Of Iinnovation.

Technical Data Sheet
PW 325™
High-Purity Silica Sand

Chesapeake Minerals High-Purity Silica Sands are produced from high-purity raw quartz gravel with an extremely low iron content and few trace elements.

PW 325™ is crushed, milled and screened to maintain a top side of 325 US Mesh. Liberated magnetic and paramagnetic minerals are removed with rare-earth roll magnets to maintain a consistent iron content below 80 ppm. The precise control of particle size distribution and chemistry improves production processes, allowing better control of production costs and compliance with customers' chemistry demands.

Because of its reliable chemical composition and consistent gradation quality, **PW 325™** is an excellent choice for a variety of applications requiring high-purity silica.

TYPICAL PARTICLE SIZE ANALYSIS (ASTM Sieve)	
325	2.0

PHYSICAL PROPERTIES	
Tapped Bulk Density (lb/ft^3)	67.7
Loose Bulk Density (lb/ft^3)	57.9
LOI %	<0.05
pH	6.17

TYPICAL COLOR PROPERTIES	
CIE Analysis - L	94.30
a	0.20
b	2.00
Specific Gravity (OD)	1.76
Water Absorption (%)	19.1
Magnetic Properties	Negative

TYPICAL COLOR PROPERTIES	
Brightness	88.22
CIE Analysis - LL	>94
a	0.4
b	1.0
Brightness	88.22
Whiteness Index	84.6
Yellowness Index	1.5

CHEMICAL ANALYSIS (Typical Median Reported as % by Weight)	
SiO_2 (Silicon Dioxide)	>99.75%
Fe_2O_3 (Ferric Oxide)	0.013
Al_2O_3 (Aluminum Oxide)	0.236
TiO_2 (Titanium Dioxide)	<0.0010 LLD
CaO (Calcium Oxide, Total)	<0.0055 LLD
Cr_2O_3 (Chromium Oxide)	<0.0005 LLD
K_2O (Potassium Oxide)	<0.0015 LLD
MgO (Magnesium Oxide)	<0.0025 LLD
Na_2O (Sodium Oxide)	<0.0050 LLD

TRACE ELEMENTS (Typical – Reported as PPM)	
Pb (Lead)	<1.0
As (Arsenic)	<1.0
Ni (Nickel)	<1.0
Cr (Chromium)	<1.0
Cd (Cadmium)	<1.0
Hg (Mercury)	<1.0

CUSTOMER SERVICE:
P: 443.318.2872
E: info@chesapeakeminerals.com

SHIPPING:
- I-95: Halfway between Baltimore & Philadelphia
- CSX Rail System

DISTRIBUTION:
- Bulk shipment by Truck and Rail

Chesapeake Minerals
1079 Belvidere Road, Port Deposit, MD 21904
chesapeakeminerals.com