



LEAD MONOSILICATE

STANDARD GRADE

Application

This highly basic, high purity lead silicate is an economical compound for introducing lead into a glaze and as a source of lead in the glass industry. It is available in either granulated or ground form. In the finely powdered form, it is readily soluble in dilute hydrochloric and acetic acids.

Physical Properties

Color.....Light Yellow
Form.....Granulated or ground
Density.....6.6 - 6.8
Melting Point.....700 - 784°C
Coefficient of Expansion.... 9.3×10^{-6} (50 - 450°C.)
Refractive Index2.00 - 2.02

Chemical Composition

Element	Range
PbO (litharge)	85 +/- 0.8%
SiO ₂ (silica)	15 +/- 0.8%
This composition is the eutectic mixture of lead orthosilicate and lead metasilicate	

Trace Elements

Trace Elements	Maximum (%)	Typical (%)
Fe ₂ O ₃	0.0120	0.0060
ZnO	0.0010	0.0004
Cu ₂ O	0.0006	0.0004
Ag	0.0030	0.0010
Bi ₂ O ₃	0.0300	0.0025
As ₂ O ₅ , Sb ₂ O ₃ , SnO ₂	0.0019	< 0.0010
Ni, Te Th, Cd	0.0008	< 0.0005
Co, Cr, Mn, Se	0.0002	< 0.0001

Granular Packaging
1,000 kg Bulk bags
2,000 lb. Bulk bags
Ground Packaging
50 lb. / 22.68 kg Paper bags
Special packaging may be available upon request

Typical Screen Analysis (U.S. Standard Sieve)	Granular (%)	Ground (%)
Greater than 7 mesh	0	0
Greater than 80 mesh	97	0
Less than 80 mesh	3	0
Greater than 100 mesh	0	0
Greater than 325 mesh	0	1.4
Less than 325 mesh	0	98.6

Note

This data sheet illustrates typical values for this product. If specific characteristics are required that are different from these values, please contact your area sales representative.



HAMMOND LEAD PRODUCTS

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