



TRIBASIC LEAD SILICATE

ULTRA HIGH PURITY 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.....Yellow
Form.....Granulated or ground
Density.....7.50 - 7.60 g/cc
Melting Point.....705 - 733°C. (1301 - 1351°)
Coefficient of Expansion..... 9.3×10^{-6} (50 - 450°C.)
Refractive Index2.20 - 2.24

Chemical Composition

PbO (litharge)	92 +/- 0.8%
SiO ₂ (silica)	8 +/- 0.8%
This composition is the eutectic mixture of lead orthosilicate and lead metasilicate.	

Trace Elements

Trace Elements	Maximum (%)	Typical (%)
Fe ₂ O ₃	0.0050	0.0040
ZnO	0.0008	0.0003
Cu ₂ O	0.0005	0.0003
Ag	0.0014	0.0007
Bi ₂ O ₃	0.0250	0.0010
As ₂ O ₅ , Sb ₂ O ₃ , SnO ₂	0.0009	< 0.0005
Ni, Te, Th, Cd	0.0006	< 0.0004
Co, Cr, Mn, Se	0.0002	< 0.0001

Packaging
2,000 lb. / 907.19 kg Bulk 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	1.5
Less than 325 mesh	0	98.5

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.



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