Chemical Composition

This composition is the eutectic mixture of lead orthosilicate and lead metasilicate.

Pb0 (litharge)

Si0₂ (silica)

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	
Density	6.50 - 6.65 g/cm ³
Melting Point	700 - 784°C
Coefficient of Expansion	9.3 x 10 ⁻⁶ (50 - 450°C)
Refractive Index	

Trace Elements

Element	Ma	aximum (%) Typical (%		al (%)	
Fe ₂ 0 ₃		0.0120 0.0060		060	
Zn0	0.0010 0.0004		004		
Cu ₂ 0		0.0006	6 0.0004		004
Ag		0.0030		0.0015	
Bi ₂ 0 ₃	0.0300 0.0080		080		
As ₂ 0 ₅ , Sb ₂ 0 ₃ , Sn0 ₂		0.0019 <0.0010		0010	
Ni, Te, Th, Cd	0.0008 <0		0005		
Co, Cr, Mn, Se	0.0002		< 0.0001		
Turnian Company Ameri		Cusular	1	Custond	

(U.S. Standard Sieve)	Granular (%)	Ground (%)
greater than 8 mesh	1	0
between 8 – 10 mesh	4	0
between 10 – 20 mesh	60	0
between 20 – 40 mesh	27	0
between 40 – 80 mesh	6	0
between 80 – 100 mesh	2	0
between 100 – 200 mesh	0	0.1
Between 200 – 325 mesh	0	1.3
Less than 325 mesh	0	98.6

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			

85 +/- 0.8%

15 +/- 0.8%

<u>Note</u>

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



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