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White Portland Cement - Constituents

Art. ID	NIST-1886b
Unit	5 x 5 g
Deliverydetails	No Dangerous Good /not restricted

Description

This Standard Reference Material (SRM) is a white portland cement intended primarily for the evaluation of methods for analysis of cements and materials of similar matrix. A unit of NIST-1886b consists of five vials, each containing about 5 g of portland cement ground to pass through a 75 µm (No. 200) sieve, and each sealed in a foil pouch. /// Sample value(s) - please ask for current certificate.

Text/Information	Analyte/Parameter	CAS number	Concentration/Value	Unit	Method	Source
Certified Mass Fraction	SiO2		22,08 ± 0,30	%		
Certified Mass Fraction	Al2O3		3,903 ± 0,043	%		
Certified Mass Fraction	Fe2O3		0,297 ± 0,016	%		
Certified Mass Fraction	CaO		66,05 ± 0,41	%		
Certified Mass Fraction	MgO	[1309-48-4]	1,526 ± 0,031	%		
Certified Mass Fraction	SO3		2,757 ± 0,043	%		
Certified Mass Fraction	Na2O		0,01682 ± 0,00084	%		
Certified Mass Fraction	K2O		0,0164 ± 0,0048	%		
Certified Mass Fraction	TiO2		0,2054 ± 0,0056	%		
Certified Mass Fraction	P2O5		0,0413 ± 0,0031	%		
Certified Mass Fraction	Mn2O3		0,02639 ± 0,00047	%		
Certified Mass Fraction	Cr2O3		0,00404 ± 0,00054	%		
Certified Mass Fraction	SrO		0,0886 ± 0,0034	%		
Certified Mass Fraction	Chloride (Cl-)		0,00399 ± 0,00081	%		
Reference Mass Fraction	ZnO		0,00058 ± 0,00004	%		
Reference Mass Fraction	BaO		0,009 ± 0,005	%		
Reference Mass Fraction	Sulfide sulfur	[n/a]	0,089 ± 0,002	%		
Reference Mass Fraction	Insoluble Residue		0,13 ± 0,02	%		
Reference Mass Fraction	Free CaO		0,24 ± 0,01	%		
Reference Mass Fraction	Fluoride (F-)		0,0118 ± 0,0002	%		
Reference Mass Fraction, LOI between 45 °C and 220 °C	Loss on Ignition (LOI)		0,877 ± 0,085	%		
Reference Mass Fraction, LOI between 220 °C and 550 °C	Loss on Ignition (LOI)		0,293 ± 0,039	%		
Reference Mass Fraction	Loss on Ignition (LOI)		2,174 ± 0,081	%		

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, LOI between 550 °C an d 950 °C				
Information Mass Fracti on, LOI between ambient temperature and 45 °C	Loss on Ignition (LOI)		< 0,05	%
Information Mass Fracti on	Mercury (Hg)	[7439-97-6]	< 2	µg/kg
Information Mass Fracti on	Total analyzed constitu ents		100,24	%