

Green petroleum coke - Trace elements

Art. ID	NIST-2718a
Unit	50 g
Deliverydetails	No Dangerous Good /not restricted

Description

This Standard Reference Material (SRM) is intended primarily for use in the calibration of apparatus and the evaluation of techniques used in the analysis of green (raw) petroleum coke and other materials of a similar matrix. It can be used to validate value assignment of in-house reference materials. A unit of NIST-2718a consists of 50 g of green petroleum coke ground to pass a 250 µm (60 mesh) sieve, homogenized, packaged in an amber glass bottle under an argon atmosphere, and then sealed in an aluminized bag /// Sample value(s) - please ask for current certificate.

Text/Information	Analyte/Parameter	CAS number	Concentration/Value	Unit	Method	Source
Certified Mass Fraction Value (Dry-Mass Basis) , k = 3,18	Iron (Fe)	[7439-89-6]	287 ± 44	mg/kg		
Certified Mass Fraction Value (Dry-Mass Basis) , k = 3,64	Sodium (Na)	[7440-23-5]	83,0 ± 9,3	mg/kg		
Certified Mass Fraction Value (Dry-Mass Basis) , k = 3,24	Vanadium (V)	[7440-62-2]	310 ± 12	mg/kg		
Certified Mass Fraction Value (Dry-Mass Basis) , k = 2,87	Sulfur (S)	[7704-34-9]	4,690 ± 0,083	%		
Reference Mass Fraction Value (Dry-Mass Basis) , k = 2,13	Aluminium (Al)	[7429-90-5]	15,4 ± 1,2	mg/kg		
Reference Mass Fraction Value (Dry-Mass Basis) , k = 2,13	Calcium (Ca)	[7440-70-2]	165,5 ± 8,6	mg/kg		
Reference Mass Fraction Value (Dry-Mass Basis) , k = 2,71	Chlorine (Cl)	[7782-50-5]	62 ± 10	mg/kg		
Reference Mass Fraction Value (Dry-Mass Basis) , k = 1,99	Cobalt (Co)	[7440-48-4]	5,71 ± 0,19	mg/kg		
Reference Mass Fraction Value (Dry-Mass Basis)	Mercury (Hg)	[7439-97-6]	0,197 ± 0,093	mg/kg		

, k = 2,32				
Reference Mass Fraction	Manganese (Mn)	[7439-96-5]	2,11 ± 0,10	mg/kg
Value (Dry-Mass Basis)				
, k = 2,13				
Reference Mass Fraction	Nickel (Ni)	[7440-02-0]	144,06 ± 0,91	mg/kg
Value (Dry-Mass Basis)				
, k = 2,38				
Reference Mass Fraction	Hydrogen (H)	[1333-74-0]	3,725 ± 0,042	%
Value (Dry-Mass Basis)				
, k = 2,05				
Information Value	Ash		1	%
Information Value	Calorific Value		35	MJ/kg
Information Value	Carbon (C)	[7440-44-0]	90	%
Information Value	Nitrogen (N)	[7727-37-9]	1	%
Information Value	Silicon (Si)	[7440-21-3]	50	mg/kg