

Longmyndian Greywacke Powder ~35 g (ENGLAND)

Art. ID	IAG-OU-10
Unit	35 g (powder)
Deliverydetails	No Dangerous Good /not restricted

Description

IAG-OU-10 Longmyndian Greywacke was collected from Bayston Hill quarry, Shrewsbury, Shropshire. This material was employed as the test material for Round 24 of the GeoPT proficiency testing programme. The Proficiency Testing Committee for this round was Prof M. Thompson (Statistician), Dr P.C. Webb (Results coordinator), Prof P.J. Potts and Mr J. S. Watson. The material was tested for homogeneity by WDXRF at The Open University, Milton Keynes, UK by WDXRF for a range of major and trace elements and the data tested for consequential degree of homogeneity according to the Fearn test. In none of the cases for which valid data were obtained was any significant lack of homogeneity found, therefore the sample was considered suitable for use in the GeoPT proficiency testing programme.

Text/Information	Analyte/Parameter	CAS number	Concentration/Value	Unit	Method	Source
	Loss on Ignition (LOI)		~2,20	%		
	Al ₂ O ₃		10,97	%		
	Barium (Ba)	[7440-39-3]	0,0311	%		
	Beryllium (Be)	[7440-41-7]	~0,00011	%		
	CaO		2,34	%		
	Cadmium (Cd)	[7440-43-9]	~0,00028	%		
	Cerium (Ce)	[7440-45-1]	~0,00380	%		
	Cobalt (Co)	[7440-48-4]	0,0012	%		
	Chromium (Cr)	[7440-47-3]	0,0034	%		
	Caesium (Cs)	[7440-46-2]	0,000168	%		
	Copper (Cu)	[7440-50-8]	0,00223	%		
	Dysprosium (Dy)	[7429-91-6]	0,000365	%		
	Erbium (Er)	[7440-52-0]	0,00022	%		
	Europium (Eu)	[7440-53-1]	0,0001	%		
	Fe ₂ O ₃		4,92	%		
	Gallium (Ga)	[7440-55-3]	0,0012	%		
	Gadolinium (Gd)	[7440-54-2]	0,00037	%		
	Hafnium (Hf)	[7440-58-6]	0,00033	%		
	Holmium (Ho)	[7440-60-0]	0,000075	%		
	K ₂ O		1,28	%		
	Lanthanum (La)	[7439-91-0]	0,00188	%		
	Lithium (Li)	[7439-93-2]	~0,00260	%		
	Lutetium (Lu)	[7439-94-3]	0,000034	%		
	MgO	[1309-48-4]	1,77	%		
	MnO		0,12	%		

Molybdenum (Mo)	[7439-98-7]	~0,000098	%
Na ₂ O		2,43	%
Niobium (Nb)	[7440-03-1]	0,00076	%
Neodymium (Nd)	[7440-00-8]	0,00187	%
Nickel (Ni)	[7440-02-0]	~0,00177	%
P ₂ O ₅		0,09	%
Lead (Pb)	[7439-92-1]	0,00269	%
Praseodymium (Pr)	[7440-10-0]	0,00047	%
Rubidium (Rb)	[7440-17-7]	0,00359	%
Scandium (Sc)	[7440-20-2]	0,00113	%
SiO ₂		73,12	%
Samarium (Sm)	[7440-19-9]	~0,00039	%
Strontium (Sr)	[7440-24-6]	0,0174	%
Tantalum (Ta)	[7440-25-7]	0,000056	%
Terbium (Tb)	[7440-27-9]	0,000061	%
Thorium (Th)	[7440-29-1]	0,0005	%
TiO ₂		0,534	%
Thallium (Tl)	[7440-28-0]	~0,000023	%
Thulium (Tm)	[7440-30-4]	0,000034	%
Uranium (U)	[7440-61-1]	0,000109	%
Vanadium (V)	[7440-62-2]	0,0077	%
Yttrium (Y)	[7440-65-5]	0,00205	%
Ytterbium (Yb)	[7440-64-4]	0,00022	%
Zinc (Zn)	[7440-66-6]	0,0054	%
Zirconium (Zr)	[7440-67-7]	0,0123	%