

## Syenite

Art. ID	CANMET-SY-5
Unit	100 g
Deliverydetails	No Dangerous Good /not restricted

### Description

SY-5 is a rock obtained from an outcrop near the Township of Admaston/Bromley, Ontario, Canada /// The mineral species include: albite (25.1%), kaersutite (19.2%), microcline (18.8%), hematite/magnetite (8.5%), apatite (5.4%), titanite (5.2%), biotite (3.7%), pyrite (1.8%), magnesiogedrite (1.0%), actinolite (0.97%), calcite (0.6%), anorthite (0.6%), quartz (0.6%), zircon (0.4%), garnet-pyropite (0.3%), barite (0.1%), plagioclase (0.1%), allanite-(Ce) (0.1%), ilmenite (0.1%), and unclassified (7.5%) /// SY-5 is suitable for the analysis of elements in rocks at major, minor and trace levels of concentration. Examples of intended use include quality control and method development.

Text/Information	Analyte/Parameter	CAS number	Concentration/Value	Unit	Method	Source
Mean value	Al <sub>2</sub> O <sub>3</sub>		14,35	%	FUS ICP	
Mean value	Al <sub>2</sub> O <sub>3</sub>		14,18	%	FB XRF	
Mean value	Barium (Ba)	[7440-39-3]	6480	µg/g	FB XRF, AD 3/4 FUS IC P	
Mean value	Beryllium (Be)	[7440-41-7]	4,62	µg/g	AD3/4 FUS ICP	
Mean value	Carbon (C)	[7440-44-0]	0,171	%	COMB IR	
Mean value	CaO		6,88	%	AD3/4 ICP	
Mean value	CaO		7,12	%	FUS ICP	
Mean value	CaO		7,039	%	FB XRF	
Mean value	Cerium (Ce)	[7440-45-1]	459	µg/g	AD3/4 FUS ICP	
Mean value	Cobalt (Co)	[7440-48-4]	23,1	µg/g	AD2/3/4 FU S ICP	
Mean value	Chromium (Cr)	[7440-47-3]	151,5	µg/g	FUS ICP, F B XRF	
Mean value	Caesium (Cs)	[7440-46-2]	0,612	µg/g	AD3/4 FUS ICP	
Mean value	Copper (Cu)	[7440-50-8]	37,9	µg/g	AD2/3/4 FU S ICP	
Mean value	Dysprosium (Dy)	[7429-91-6]	11,33	µg/g	AD3/4 FUS ICP	
Mean value	Erbium (Er)	[7440-52-0]	5,38	µg/g	AD3/4 FUS ICP	
Mean value	Europium (Eu)	[7440-53-1]	7,64	µg/g	AD3/4 FUS	

					ICP
Mean value	Fe <sub>2</sub> O <sub>3</sub>		10,61	%	FUS ICP
Mean value	Fe <sub>2</sub> O <sub>3</sub>		10,481	%	FB XRF
Mean value	Gallium (Ga)	[7440-55-3]	21,6	µg/g	AD3/4 FUS
					ICP
Mean value	Gadolinium (Gd)	[7440-54-2]	19,8	µg/g	AD3/4 FUS
					ICP
Mean value	Hafnium (Hf)	[7440-58-6]	15,3	µg/g	FUS ICP
Mean value	Holmium (Ho)	[7440-60-0]	2,04	µg/g	AD3/4 FUS
					ICP
Mean value	K <sub>2</sub> O		4,15	%	FB XRF
Mean value	K <sub>2</sub> O		4,17	%	AD3/4 FUS
					ICP
Mean value	Lanthanum (La)	[7439-91-0]	225	µg/g	AD3/4 FUS
					ICP
Mean value	Lithium (Li)	[7439-93-2]	49,5	µg/g	AD3/4 FUS
					ICP
Mean value	Loss on Ignition (L.O.I )		0,86	%	GRV1
Mean value	Lutetium (Lu)	[7439-94-3]	0,702	µg/g	AD3/4 FUS
					ICP
Mean value	MgO	[1309-48-4]	3,305	%	FB XRF
Mean value	MgO	[1309-48-4]	3,13	%	AD3/4 ICP
Mean value	MgO	[1309-48-4]	3,235	%	FUS ICP
Mean value	MnO		0,1283	%	FB XRF, AD 3/4 FUS IC P
Mean value	Molybdenum (Mo)	[7439-98-7]	8,93	µg/g	AD2/3/4 FU S ICP
Mean value	Moisture		0,142	%	GRV2
Mean value	Na <sub>2</sub> O		4,15	%	AD3/4 FUS
					ICP
Mean value	Niobium (Nb)	[7440-03-1]	22,2	µg/g	AD3/4 FUS
					ICP
Mean value	Neodymium (Nd)	[7440-00-8]	208,1	µg/g	AD3/4 FUS
					ICP
Mean value	Nickel (Ni)	[7440-02-0]	79,8	µg/g	FB XRF, AD 3/4 FUS IC

					P
Mean value	P2O5		2,04	%	AD3/4 FUS ICP
Mean value	Lead (Pb)	[7439-92-1]	65,9	µg/g	FB XRF, AD 3/4 FUS IC P
Mean value	Praseodymium (Pr)	[7440-10-0]	55,3	µg/g	AD3/4 FUS ICP
Mean value	Rubidium (Rb)	[7440-17-7]	76,9	µg/g	AD3/4 FUS ICP
Mean value	Sulfur (S)	[7704-34-9]	0,421	%	AD3/4 FUS ICP, COMB IR
Mean value	Antimony (Sb)	[7440-36-0]	0,524	µg/g	AD2/3/4 FU S ICP
Mean value	Scandium (Sc)	[7440-20-2]	12,37	µg/g	AD3/4 FUS ICP
Mean value	SiO2		49,83	%	FB XRF, FU S GRV
Mean value	SiO2		50,1	%	FUS ICP
Mean value	Samarium (Sm)	[7440-19-9]	31,1	µg/g	AD3/4 FUS ICP
Mean value	Tin (Sn)	[7440-31-5]	2,56	µg/g	AD3/4 FUS ICP
Mean value	Strontium (Sr)	[7440-24-6]	3100	µg/g	FB XRF, AD 3/4 FUS IC P
Mean value	Tantalum (Ta)	[7440-25-7]	1,06	µg/g	AD3/4 FUS ICP
Mean value	Terbium (Tb)	[7440-27-9]	2,26	µg/g	AD3/4 FUS ICP
Mean value	Thorium (Th)	[7440-29-1]	25,2	µg/g	AD3/4 FUS ICP
Mean value	TiO2		1,777	%	AD3/4 FUS ICP
Mean value	TiO2		1,81	%	FB XRF
Mean value	Thallium (Tl)	[7440-28-0]	0,614	µg/g	AD3/4 FUS ICP

Mean value	Thulium (Tm)	[7440-30-4]	0,725	µg/g	AD3/4 FUS ICP
Mean value	Uranium (U)	[7440-61-1]	5,09	µg/g	AD3/4 FUS ICP