

Fe ore, CRM State: oxide, Matrix: banded jaspelite, Mineralisation Style: BIF-hosted

Art. ID OREAS-408-60G
Unit 60 g
Deliverydetails No Dangerous Good /not restricted

Description

SOURCE MATERIAL: OREAS-408 is a certified reference material composed of hematite iron ore, obtained from the Hawks Nest Magnetite Project under an exploration license with Peak Iron Mines. The CRM contains approximately 86 % hematite and 3 % magnetite. The project site is situated approximately 120 kilometres south of Coober Pedy in South Australia.

Text/Information	Analyte/Parameter	CAS number	Concentration/Value	Unit	Method	Source
	Iron (Fe)	[7439-89-6]	63,22	wt.%	Borate Fus ion XRF	
	FeO		1,13	wt.%	Classical Wet Chemis try	
	Iron(II,III) oxide (Fe ₃ O ₄)		1,98	wt.%	Satmagan 1 35	
	Al ₂ O ₃		0,998	wt.%	Borate Fus ion XRF	
	Arsenic (As)	[7440-38-2]	35,6	ppm	Borate Fus ion XRF	
	Arsenic (As)	[7440-38-2]	0,00356	%	Borate Fus ion XRF	
	CaO		0,311	wt.%	Borate Fus ion XRF	
	Chlorine (Cl)	[7782-50-5]	207	ppm	Borate Fus ion XRF	
	Chlorine (Cl)	[7782-50-5]	0,0207	%	Borate Fus ion XRF	
Iron normalised to 100% (wt.%)	Fe(III), calculated		63,24	wt.%	Borate Fus ion XRF	
	K ₂ O		0,027	wt.%	Borate Fus ion XRF	
	Manganese (Mn)	[7439-96-5]	0,081	wt.%	Borate Fus ion XRF	
	MgO	[1309-48-4]	0,068	wt.%	Borate Fus ion XRF	

Phosphorus (P)	[7723-14-0]	0,015	wt. %	Borate Fusion XRF
SiO ₂		7,01	wt. %	Borate Fusion XRF
Sulfur (S)	[7704-34-9]	0,016	wt. %	Borate Fusion XRF
Zinc (Zn)	[7440-66-6]	81	ppm	Borate Fusion XRF
Zinc (Zn)	[7440-66-6]	0,0081	%	Borate Fusion XRF
Loss on Ignition (L.O.I.) (1000 °C)		0,985	wt. %	Thermogravimetry
Loss on Ignition (L.O.I.) (371 °C)		0,352	wt. %	Thermogravimetry
Loss on Ignition (L.O.I.) (425 °C)		0,414	wt. %	Thermogravimetry
Loss on Ignition (L.O.I.) (650 °C)		0,727	wt. %	Thermogravimetry
Aluminium (Al)	[7429-90-5]	0,524	wt. %	4-Acid Digestion
Antimony (Sb)	[7440-36-0]	9,42	ppm	4-Acid Digestion
Antimony (Sb)	[7440-36-0]	0,000942	%	4-Acid Digestion
Arsenic (As)	[7440-38-2]	30,5	ppm	4-Acid Digestion
Arsenic (As)	[7440-38-2]	0,00305	%	4-Acid Digestion
Barium (Ba)	[7440-39-3]	28,3	ppm	4-Acid Digestion
Barium (Ba)	[7440-39-3]	0,00283	%	4-Acid Digestion
Beryllium (Be)	[7440-41-7]	2,43	ppm	4-Acid Digestion
Beryllium (Be)	[7440-41-7]	0,000243	%	4-Acid Digestion
Bismuth (Bi)	[7440-69-9]	1,19	ppm	4-Acid Digestion

Bismuth (Bi)	[7440-69-9]	0,000119	%	4-Acid Digestion
Caesium (Cs)	[7440-46-2]	1,65	ppm	4-Acid Digestion
Caesium (Cs)	[7440-46-2]	0,000165	%	4-Acid Digestion
Calcium (Ca)	[7440-70-2]	0,216	wt. %	4-Acid Digestion
Cerium (Ce)	[7440-45-1]	15,9	ppm	4-Acid Digestion
Cerium (Ce)	[7440-45-1]	0,00159	%	4-Acid Digestion
Chromium (Cr)	[7440-47-3]	34,1	ppm	4-Acid Digestion
Chromium (Cr)	[7440-47-3]	0,00341	%	4-Acid Digestion
Cobalt (Co)	[7440-48-4]	32,6	ppm	4-Acid Digestion
Cobalt (Co)	[7440-48-4]	0,00326	%	4-Acid Digestion
Copper (Cu)	[7440-50-8]	21,2	ppm	4-Acid Digestion
Copper (Cu)	[7440-50-8]	0,00212	%	4-Acid Digestion
Dysprosium (Dy)	[7429-91-6]	3,01	ppm	4-Acid Digestion
Dysprosium (Dy)	[7429-91-6]	0,000301	%	4-Acid Digestion
Erbium (Er)	[7440-52-0]	1,83	ppm	4-Acid Digestion
Erbium (Er)	[7440-52-0]	0,000183	%	4-Acid Digestion
Gadolinium (Gd)	[7440-54-2]	2,71	ppm	4-Acid Digestion
Gadolinium (Gd)	[7440-54-2]	0,000271	%	4-Acid Digestion
Gallium (Ga)	[7440-55-3]	4,4	ppm	4-Acid Digestion

Gallium (Ga)	[7440-55-3]	0,00044	%	4-Acid Digestion
Germanium (Ge)	[7440-56-4]	0,53	ppm	4-Acid Digestion
Germanium (Ge)	[7440-56-4]	0,000053	%	4-Acid Digestion
Indium (In)	[7440-74-6]	0,26	ppm	4-Acid Digestion
Indium (In)	[7440-74-6]	0,000026	%	4-Acid Digestion
Iron (Fe)	[7439-89-6]	60,12	wt. %	4-Acid Digestion
Lanthanum (La)	[7439-91-0]	6,36	ppm	4-Acid Digestion
Lanthanum (La)	[7439-91-0]	0,000636	%	4-Acid Digestion
Lead (Pb)	[7439-92-1]	24	ppm	4-Acid Digestion
Lead (Pb)	[7439-92-1]	0,0024	%	4-Acid Digestion
Lithium (Li)	[7439-93-2]	175	ppm	4-Acid Digestion
Lithium (Li)	[7439-93-2]	0,0175	%	4-Acid Digestion
Magnesium (Mg)	[7439-95-4]	0,039	wt. %	4-Acid Digestion
Manganese (Mn)	[7439-96-5]	0,074	wt. %	4-Acid Digestion
Molybdenum (Mo)	[7439-98-7]	5,74	ppm	4-Acid Digestion
Molybdenum (Mo)	[7439-98-7]	0,000574	%	4-Acid Digestion
Neodymium (Nd)	[7440-00-8]	9,86	ppm	4-Acid Digestion
Neodymium (Nd)	[7440-00-8]	0,000986	%	4-Acid Digestion
Nickel (Ni)	[7440-02-0]	27,3	ppm	4-Acid Digestion

Nickel (Ni)	[7440-02-0]	0,00273	%	4-Acid Digestion
Niobium (Nb)	[7440-03-1]	1,95	ppm	4-Acid Digestion
Niobium (Nb)	[7440-03-1]	0,000195	%	4-Acid Digestion
Phosphorus (P)	[7723-14-0]	0,015	wt. %	4-Acid Digestion
Potassium (K)	[7440-09-7]	0,025	wt. %	4-Acid Digestion
Praseodymium (Pr)	[7440-10-0]	2,11	ppm	4-Acid Digestion
Praseodymium (Pr)	[7440-10-0]	0,000211	%	4-Acid Digestion
Rhenium (Re)	[7440-15-5]	< 0,002	ppm	4-Acid Digestion
Rhenium (Re)	[7440-15-5]	<0,0000002	%	4-Acid Digestion
Rubidium (Rb)	[7440-17-7]	3,21	ppm	4-Acid Digestion
Rubidium (Rb)	[7440-17-7]	0,000321	%	4-Acid Digestion
Samarium (Sm)	[7440-19-9]	2,38	ppm	4-Acid Digestion
Samarium (Sm)	[7440-19-9]	0,000238	%	4-Acid Digestion
Scandium (Sc)	[7440-20-2]	1,41	ppm	4-Acid Digestion
Scandium (Sc)	[7440-20-2]	0,000141	%	4-Acid Digestion
Selenium (Se)	[7782-49-2]	< 1,00	ppm	4-Acid Digestion
Selenium (Se)	[7782-49-2]	<0,0001	%	4-Acid Digestion
Silver (Ag)	[7440-22-4]	0,284	ppm	4-Acid Digestion
Silver (Ag)	[7440-22-4]	0,0000284	%	4-Acid Digestion

Sodium (Na)	[7440-23-5]	0,03	wt. %	4-Acid Digestion
Strontium (Sr)	[7440-24-6]	33,9	ppm	4-Acid Digestion
Strontium (Sr)	[7440-24-6]	0,00339	%	4-Acid Digestion
Sulfur (S)	[7704-34-9]	0,019	wt. %	4-Acid Digestion
Tantalum (Ta)	[7440-25-7]	3,76	ppm	4-Acid Digestion
Tantalum (Ta)	[7440-25-7]	0,000376	%	4-Acid Digestion
Tellurium (Te)	[13494-80-9]	< 0,010	ppm	4-Acid Digestion
Tellurium (Te)	[13494-80-9]	<0,000001	%	4-Acid Digestion
Thallium (Tl)	[7440-28-0]	0,18	ppm	4-Acid Digestion
Thallium (Tl)	[7440-28-0]	0,000018	%	4-Acid Digestion
Thorium (Th)	[7440-29-1]	0,81	ppm	4-Acid Digestion
Thorium (Th)	[7440-29-1]	0,000081	%	4-Acid Digestion
Tin (Sn)	[7440-31-5]	12,9	ppm	4-Acid Digestion
Tin (Sn)	[7440-31-5]	0,00129	%	4-Acid Digestion
Titanium (Ti)	[7440-32-6]	0,01	wt. %	4-Acid Digestion
Tungsten (W)	[7440-33-7]	19,1	ppm	4-Acid Digestion
Tungsten (W)	[7440-33-7]	0,00191	%	4-Acid Digestion
Uranium (U)	[7440-61-1]	3,21	ppm	4-Acid Digestion
Uranium (U)	[7440-61-1]	0,000321	%	4-Acid Digestion

Vanadium (V)	[7440-62-2]	15,4	ppm	4-Acid Digestion
Vanadium (V)	[7440-62-2]	0,00154	%	4-Acid Digestion
Yttrium (Y)	[7440-65-5]	18,4	ppm	4-Acid Digestion
Yttrium (Y)	[7440-65-5]	0,00184	%	4-Acid Digestion
Zinc (Zn)	[7440-66-6]	73	ppm	4-Acid Digestion
Zinc (Zn)	[7440-66-6]	0,0073	%	4-Acid Digestion
Zirconium (Zr)	[7440-67-7]	7,37	ppm	4-Acid Digestion
Zirconium (Zr)	[7440-67-7]	0,000737	%	4-Acid Digestion
Specific Gravity		4,76		Gas / Liquid Pycnometry