

68845 – 4.6 grams

68846 – 2.3 grams

68847 – 2.8 grams

Uncertain Walnuts



Figure 1: Photo of 68845. 2.2 cm long



Figure 2: Photo of 68846. About 1 cm

Introduction

68845 and its companions were sieved from a large soil collected at station 8, Apollo 16 – see section on 68840. They are coherent, grey, aphanitic rocks. Thin sections are not available at this time.

Chemistry

The composition of these particles is reported as and average (Korotev 1994). They appear to be very feldspathic (table).

References for 68845, 46, 47

Butler P. (1972a) Lunar Sample Information Catalog Apollo 16. Lunar Receiving Laboratory. MSC 03210 Curator's Catalog. pp. 370.

LSPET (1973b) The Apollo 16 lunar samples: Petrographic and chemical description. *Science* **179**, 23-34.

Ryder G. and Norman M.D. (1980) Catalog of Apollo 16 rocks (3 vol.). Curator's Office pub. #52, JSC #16904

Sutton R.L. (1981) Documentation of Apollo 16 samples. In *Geology of the Apollo 16 area, central lunar highlands*. (Ulrich et al.) U.S.G.S. Prof. Paper 1048.

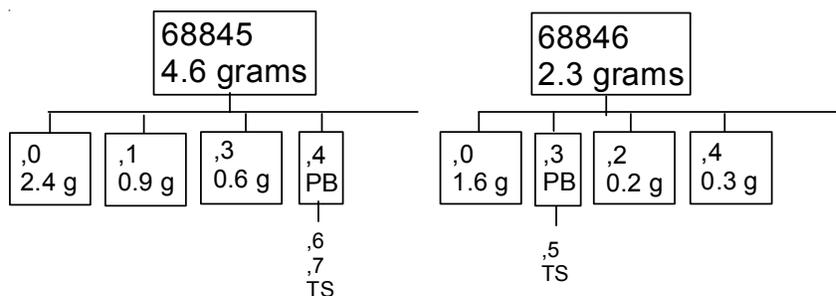


Table 1. Chemical composition of 68845.

<i>reference</i>	Korotev94	
<i>weight</i>	M	
SiO ₂ %		
TiO ₂		
Al ₂ O ₃		
FeO	2.9	(a)
MnO		
MgO		
CaO	17.1	(a)
Na ₂ O	0.533	(a)
K ₂ O		
P ₂ O ₅		
S %		
<i>sum</i>		
Sc ppm	5.4	(a)
V		
Cr	360	(a)
Co	6.9	(a)
Ni	43	(a)
Cu		
Zn		
Ga		
Ge ppb		
As		
Se		
Rb	0.9	(a)
Sr	192	(a)
Y		
Zr	35	(a)
Nb		
Mo		
Ru		
Rh		
Pd ppb		
Ag ppb		
Cd ppb		
In ppb		
Sn ppb		
Sb ppb		
Te ppb		
Cs ppm	0.04	(a)
Ba	42	(a)
La	2.37	(a)
Ce	6.1	(a)
Pr		
Nd	3.9	(a)
Sm	1.12	(a)
Eu	1.14	(a)
Gd		
Tb	0.23	(a)
Dy		
Ho		
Er		
Tm		
Yb	0.91	(a)
Lu	0.127	(a)
Hf	0.85	(a)
Ta	0.12	(a)
W ppb		
Re ppb		
Os ppb		
Ir ppb	2	(a)
Pt ppb		
Au ppb	1	(a)
Th ppm	0.37	(a)
U ppm	0.11	(a)
<i>technique:</i>	(a) mysterious average	