

60659
 Polymict Breccia
 22.2 grams



Figure 1: Photo of 60659 showing clasts. Scale is marked in mm. S73-20471

Introduction

60659 is a small polymict breccias that was collected as a rake sample near the LM (see section on 60600). This sample should be studied in “consortium mode”.

Petrography

60659 contains a number of feldspar-rich clasts in a coherent matrix (figures 1 and 2). Dowty et al. (1974, 1976) described an anorthosite clast in 60659 and gave the pyroxene composition (figure 4). Warner et al. (1976) show that the sample is very cataclastic (figure 3).

Chemistry

The composition of 60569, as determined by broad beam electron probe analysis, is of a very small portion of 60659 and may not be representative of the whole.

Table 1. Chemical composition of 60659

<i>reference weight</i>	Dowty74	
SiO2 %	44.3	(a)
TiO2	0.02	(a)
Al2O3	35.4	(a)
FeO	0.3	(a)
MnO		
MgO	0.21	(a)
CaO	19.3	(a)
Na2O	0.43	(a)
K2O		
P2O5	0.03	(a)
S %		
<i>sum</i>		

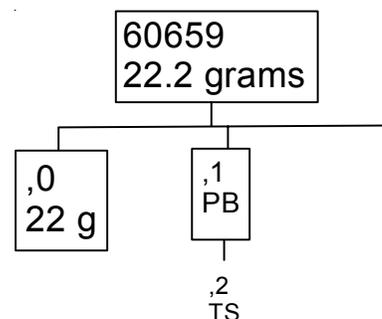




Figure 2: Photo of 60659 with mm scale. S72-46748



Figure 3: Thin section view of 60659 (Warner et al. 1976).

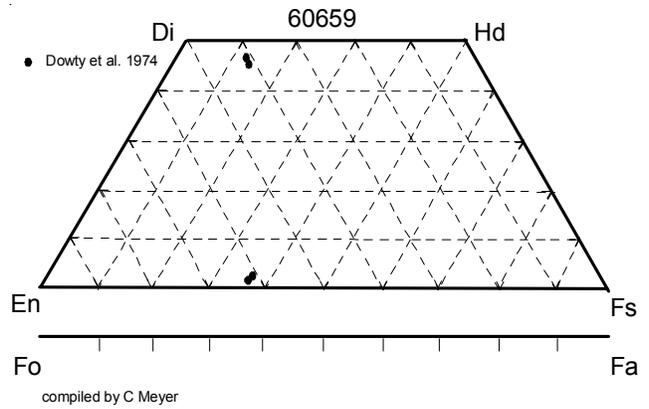


Figure 4: Pyroxene diagram for 60659 (Warner et al. 1976).

References for 60659

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