

15288 – 70.5 grams

15289 – 24.1 grams

Regolith Breccia



Figure 1: Photos of 15288. Edge of cube is 1 cm. S71-33571 and S71-33570.



Figure 2: Top and bottom of 15289. Sample is 1 inch cubed. S71-44832 and S71-44831

Introduction

Lunar breccias 15288 and 15289 were collected from the rim of a small crater at station 6 on the Apennine Front – along with 15265 and 15285-6. All of these samples are similar regolith breccias. They are relatively coherent with glass-cemented matrix.

Petrography

15288 and 15289 are described as tough, glassy, regolith breccias by Ryder (1985). They have abundant glass particles, beads and devitrified glass objects cemented by a glass matrix (figure 3 and 4).

Note: the classic studies of Apollo 15 regolith breccias by McKay et al. (1989) and Simon et al. (1986) did not include 15288-289.

Chemistry

Wanke et al. (1978) provided an analysis of 15288.

Processing

15288 and 15289 were returned in the same bag as 15285 and 15287. There are three thin sections of each breccia.