

**70018****Clastic Matrix Breccia****51.58 g, 1.8 x 4.5 x 5.5 cm****INTRODUCTION**

70018 is a medium dark-gray, partly glass-coated (0.1-0.5 mm thick) breccia (Fig. 1) with a brownish tint (Apollo 17 Lunar Sample Information Catalog, 1973). B is about 90% glass coated, whereas W, S, N, E, and T are partially glass coated (40%, 10%, 30%, 10%, and 10%, respectively). At the edge of T towards N, three thin and extremely delicate glass fibers protrude from the brown glass

coating. The glass coating is vesicular and imparts a metallic sheen to the specimen, whereas glass-free areas have an irregular, hackly appearance. Most of the zap pits present on this sample are on the glass-coated surfaces, whereas there are few readily apparent on the breccia surfaces. 70018 has an irregular, slabby appearance, containing rare (< 1%) cavities, but with extensive, penetrative fractures. This breccia is comprised of 80% matrix (no

mode has been determined), 10-15% plagioclase/anorthosite, 2% olivine, 2% black glass clasts, 2% orange glass clasts, 2-5% lithic fragments, and a trace of pyroxene (Apollo 17 Lunar Sample Information Catalog, 1973). This breccia was collected close to the lunar module along with 70011, 70012, and 70017.

No research has been conducted upon this sample.



Figure 1: Hand specimen photograph of 70018.