

NWA5029
Basaltic Shergottite
14.67 grams

DRAFT



Figure 1: Photo of NWA5029 (from Fectay and Bidaut).



Figure 2: Photo of sawn surface of NWA5029.

Introduction

NWA5029 was purchased in Morocco in 2003. It is covered with about 60% fusion crust (figure 1). The interior has a basaltic texture (figure 2). The CRE is 2.5 m.y.

See also NWA480

Mineralogical Mode for NWA5029

Mikouchi and Barrat 2009

Olivine	-
Pyroxene	78 vol. %
Plagioclase	18
Opakes	tr.
Silica	tr.
Meostasis	tr.

Petrography

The pyroxene in NWA5029 is elongate and euhedral to subhedral (up to 5 x 0.5 mm). Mg-rich pigeonite cores are mantled by thin ragged augite (Mikouchi and Barrat 2009). Some pyroxene zones outward to Fe-rich. Interstitial plagioclase laths have been converted to maskelynite by shock. Minor phases found in mesostasis include: merrillite, apatite, silica, ilmenite, chromite and sulfide (Mikouchi and Barrat 2009).

Chemistry

None

Radiogenic age dating

none

Cosmogenic isotopes and exposure ages

Nagao and Mikouchi (2010) reported that the CRE was ~2.5 m.y.

Processing

Sawn

References for NWA5029

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