

Certificate of Authenticity

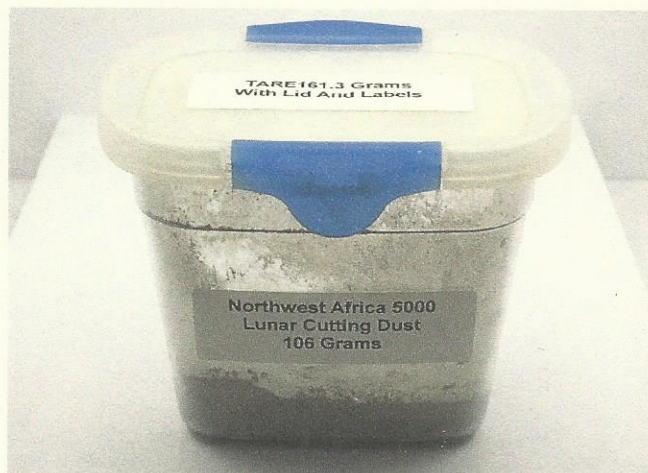
Northwest Africa 5000 Lunar Meteorite

Coordinates: From CS8
Certified Weight: 106.0 grams
Dimensions: N/A Cutting Dust
Grade: Pure Laboratory

Petrologic Classification: Unique feldspathic, metal-bearing leucogabbroic breccia

General Description: This 11,528 gram fusion-crust lunar meteorite was found in the southern Moroccan desert in July 2007. It is the largest known meteorite from the lunar highlands. The Moon rock is a complex breccia composed predominantly of genomict leucogabbroic clasts (consisting of anorthitic plagioclase, pigeonite, olivine, ilmenite and other accessory minerals) and related impact melt clasts within a fragmental to glassy, vesicular matrix. It provides evidence of multiple generations of impact brecciation in the ancient (probably > 4 billion year old) crust of the Moon, before it was ejected into an Earth-crossing orbit by an energetic impact (probably within in the several past million years). Judging from the very low effects of terrestrial hydrous weathering and the preservation of the glassy fusion crust and regmaglypts, the terrestrial residence age of this specimen must be relatively young.

Specific Description: This lot consists of pure cutting dust from preparing a 764 gram complete slice, CS 8, into smaller part slices. It was produced by using a diamond imbedded stainless steel lapidary saw and a diamond lap polishing system, both using 100% pure distilled water as a coolant.



**This certificate guarantees the authenticity of the listed specimen.
Dated this 25th day of May 2018**

**Adam C. Hupe
Original NWA 5000 Main Mass Holder
The Hupe Collection
IMCA Member ID # 2185**

