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Search text:

Northwest Africa 6570	
Basic information	<p>Name: Northwest Africa 6570 This is an OFFICIAL meteorite name. Abbreviation: NWA 6570 Observed fall: No Year found: 2010 Country: Morocco Mass: 415 g</p>
Classification history:	<p>Recommended: Lunar (feldsp. breccia) [explanation] This is 1 of 14 approved meteorites classified as Lunar (feldsp. breccia). [show all] Search for other: Planetary meteorites, Lunar meteorites</p>
Comments:	Approved 15 Apr 2011
Writeup	<p>Writeup from MB 99:</p> <div style="border: 1px solid black; padding: 5px;"> <p>Northwest Africa 6570 (NWA 6570) Morocco Found: 2010 Classification: Lunar meteorite (feldspathic breccia) History: Found in southern Morocco in 2010 and purchased from the finder by Adam Aaronson in December 2010. Physical characteristics: A single fine grained, brittle stone (415 g) lacking fusion crust. The interior is dark gray with dispersed small white clasts. Petrography: (A. Irving and S. Kuehner, <i>UWS</i>) Sparse felsic lithic clasts and mineral debris are enclosed within a dark, partly glassy and vesicular matrix. Mineral clasts include pigeonite, subcalcic augite, anorthitic plagioclase, olivine, ilmenite, kamacite and troilite. Geochemistry: Olivine (Fa_{29.5-29.6}; FeO/MnO = 92-120), pigeonite (Fs_{26.9-28.5}Wo_{10.0-12.7}, Fs_{43.7}Wo_{5.6}; FeO/MnO = 58-70), subcalcic augite (Fs_{31.6}Wo_{29.6}; FeO/MnO = 61), plagioclase (An_{91.5-95.4}Or_{0.4-0.3}). Classification: Achondrite (lunar, feldspathic breccia). This specimen is texturally and mineralogically identical to NWA 4936, NWA 5406, NWA 6221, NWA 6355 and NWA 6470 found in the same area, and evidently is paired with those stones. Specimens: A total of 20.0 g of sample is on deposit at <i>UWS</i>. The main mass is held by <i>Aaronson</i>.</p> </div>

<p>Data from: MB99 Table 0 Line 0:</p>	<p>Place of purchase: Temara Date: 2010 Mass (g): 415 Pieces: 1 Class: Lunar (feldsp. breccia) Shock stage: low Weathering grade: low Fayalite (mol%): 29.5-29.6 Ferrosilite (mol%): 26.9-28.5; 31.6 Wollastonite (mol%): 10.0-12.7; 29.6 Classifier: A. Irving and S. Kuehner Type spec mass (g): 20 Type spec location: UWS Main mass: Aaronson Comments: Submitted by A. Irving</p>
<p>Institutions and collections</p>	<p>Aaronson: Sahara Overland Ltd., Harhora, Temara, 12000, Morocco (private address; updated 3 Jan 2010) UWS: University of Washington, Department of Earth and Space Sciences, Box 351310, Seattle, WA 98195, USA (institutional address)</p>
<p>Catalogs:</p>	
<p>References:</p>	<p>Published in Meteoritical Bulletin, no. 99, MAPS 46, in preparation (2011) Find references in NASA ADS:  Find references in Google Scholar: </p>
<p>Geography:</p>	<p>Coordinates: Unknown.</p>
<p></p>	<p>Statistics: This is 1 of 624 approved meteorites from Morocco (plus 9 unapproved names)</p>
<p>Crosslinks:</p>	<p><input type="button" value="Show crosslinks"/> This lists all records that are linked to this record and to each other.</p>
<p>Also see:</p>	<p><input type="button" value="See what others liked"/> This lists the most popular meteorites among people who looked up this meteorite.</p>
<p>Revision history:</p>	<p><input type="button" value="Revision history"/> This lists important revisions made to data for this record.</p>

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