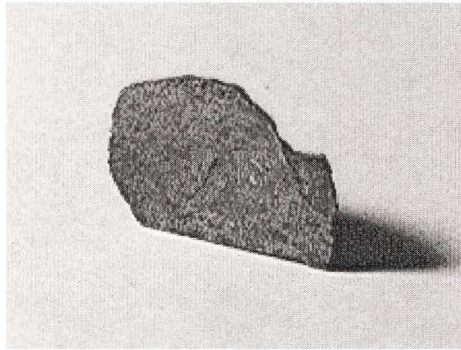


# HAMMADAH AL HAMRA 193

Winonaite



**Found October 1996**  
**28° 39.28' N., 13° 27.52' E.**

A single stone weighing 259 g was found in the Libyan Sahara. It has a weathering grade of W3 and a shock stage of S1. Winonaites likely originated on the same parent body as the IAB irons. Evidence for this includes identical O-isotopic compositions, silicate mineralogies which overlap between winonaite and IAB silicate inclusions, and identical silicate textures in certain inclusions. Evidence for the IIICD irons also originating on the same parent body is still inconclusive.

For further details on the winonaite group, please see the [Tierra Blanca](#) page. The pictured specimen is a 3.9 g partial end section.

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