

# **Classification of Al-Khamasin Meteorite, and its Composition, Al-Khamasin area, Wadi Al-Dawasir, Saudi Arabia**

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## **ABSTRACT**

The Al-Khamasin iron meteorite is a 1200 kg in weight. It was first discovered as a meteorite in 1973 . The meteorite was found near a small hill called Abu Hadida on fused sand . No associated crater was found . It is a single complete mass, measures 123x65x60 cm, with specific gravity of 7.76. It has no regular shape . The meteorite has a thin coating of oxides over a relatively unaltered metal .

The meteorite consists mostly of kamacite, containing very abundant small rhabdite grains. The meteorite contains also large grains of schreibersite, showing typical fracturing .

The chemical composition of the Al-khamasin meteorite, and the observed metallography indicate that the meteorite is a coarsest octahedrite meteorite. It belongs to group IIB meteorite, similar to Sikhote-Alin meteorite, Russia .