

ASM 009 = NWA 4768 from Birdsell
JTW 21 Feb 07

This is a medium actinolite with remarkably few inclusions. My guess is that it is low-Ni IIAB.

The ham. band width is $\sim 0.85 \pm 0.15$.

I see one round troilite with a diameter of 0.9 mm and another roughly rectangular $\sim 0.4 \times \sim 0.8$ mm.

There is no heat altered zone.

Weathering is minor to negligible. There ^{is a} ~~is~~ small (0.2 x 0.8) dark opaque associated with an FeS that has a similar area ($\sim 0.15 \times 1.0$ mm) (on edge of)



ASM 005 = NWA 4704

219

end mass

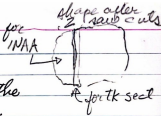


Med. oct, band width 0.10 ± 0.10 . Bands are short, swollen, but no inclusions visible in the centers. I see no FeS and no schreibersite that is clearly identifiable. The sample is crossed by small cracks showing oxidation (very minor) at edges. Plagioclase, mainly dark gray or finely banded, is abundant, ~ 30 to 35% of the area. No heat affected zone.

ASM 003 NWA 4702.

JTW 19 Feb 2007

This sample is an end section of a meteorite with total mass 123 g. Although the sawed face on the received mass had been polished and etched, the structure is essentially nondescript under the binocular scope. We will prepare a polished thick section to obtain more details. The structure is gray (no C particles, as in a carbon steel) but I worry that it might be terrestrial. There are fine "microhabdite" linear features.



ASM 011 IN1945

JTW 15 Feb 2007

Very beautiful fine olivine; band width $\sim 0.4 \pm 0.1$ mm. Structure essentially the same as ASM 007.

Much phosphide in the interiors of grains; almost every ^{with} ~~ph~~ olivine has small phosphides with sizes of $\sim 0.1-0.2 \times 0.2$ to 0.4 . Some have one or two facets.

No FeS was observed.

No heat-altered zone.

larger
face
down

ASM012 = NW 47011

DTW Apr 07

Etched on both
sides. Same features
on each side

Med. octahedral's band width difficult to
define, 0.8 ± 0.2 . The structure is strange. There
is a cluster of bands running up the center of the
specimen, dividing it into two "halves". I show
this in pencil on the sketch.

On the bottom side nearly all the bands are
parallel in the direction shown on sketch.

On the top side of this septum the Widman. pattern is more conventional,
with 4 sets of bands.

The sample contains lots of plerite, perhaps with a range of bandwidths
in most octahedral orientation. I would guess that it contains 70%
plerite.

I see no FeS and no finally identified schreib.

However, at various locations in the central septum are
what appear to be silicates. My first guess is that they are tridymite; my
second guess is olivine. Typical sizes are 0.5×1.0 mm up to 1.0×2.0 mm. They
appear to have been angular or faceted before a late shock event reduced
the grain size and caused the faces to be slightly irregular. At the left end of ^{over}

