

Re: amorphous metals

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C.D. Graham wrote:

- > *If you can draw it into wire, it will still be amorphous. Amorphous metals are generally hard and strong, probably difficult*
- > *to draw. Also you need to avoid heating, since heating causes crystallization and this generally gives a very brittle*
- > *material. My experience is with the first-generation amorphous alloys, which can only be made in thin ribbons or very fine*
- > *wires. The wires can be drawn to smaller diameters. I have no experience with the newer amorphous alloys that can be made in*
- > *diameters up to maybe an inch or so, but I would expect them to behave similarly.*

Although I can not say whether or not drawing the amorphous material into wire would directly induce crystallization, I do know that you would have to be very careful in terms of work put into the material. Many amorphous materials can devitrify at relatively low temperatures and during cold working. Much like C.D. Graham, I can not comment on the ever growing number of new alloys, but I do know that you have to be very careful about letting any energy stay within the amorphous structure.

Seth