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The Current State of Custom Pulse Power Cores Supplied by Metglas Inc.

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Metglas Inc. has a long history and large experience base in manufacturing Pulse Power Cores with amorphous metals for industrial and research applications. There are a wide variety of alloys for use as core materials which enables designs based on flux swing, core loss and rise/switching time requirements. The change in flux density can vary from 1.1 –3.4 T depending on alloy selection. Custom cores range in size from grams to tons. Custom shapes, fabrication hardware, testing and handling devices are made as needed. Polyester film is the standard material used for interlaminar insulation but other coatings can also be used. Heat treatment, winding and other proprietary processing techniques result in products that meet requirements that might not be achieved using more conventional materials and these methods will be discussed.

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