



Fig. 11 Magnetization curves of 124DU, .014", 50% NiFe stacked 1 X 1, 2 X 2, 3 X 3. Magnetization  $\sim$  sinusoidal Magnetization  $\text{~}$  halfwave ( $B_r \rightarrow B_m$ )

Figure 11 shows the magnetization curves of 124DU laminations made of 4914, stacked in packs of 1 X 1 to 3 X 3 laminations and magnetized with full sinewave and halfwaves. These examples show how powerful a tool controlled stacking of laminations is in the control of the hysteresis loop and the permeability. Above considerations will hopefully inspire designers to use all these tools available to maximize the efficiency of power and electronic transformers. Proper selection of material, lamination shape and stacking method. Consultation with the Engineering Departments of suppliers, to optimize designs, is always recommended and has normally great paybacks.

REFERENCES:

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