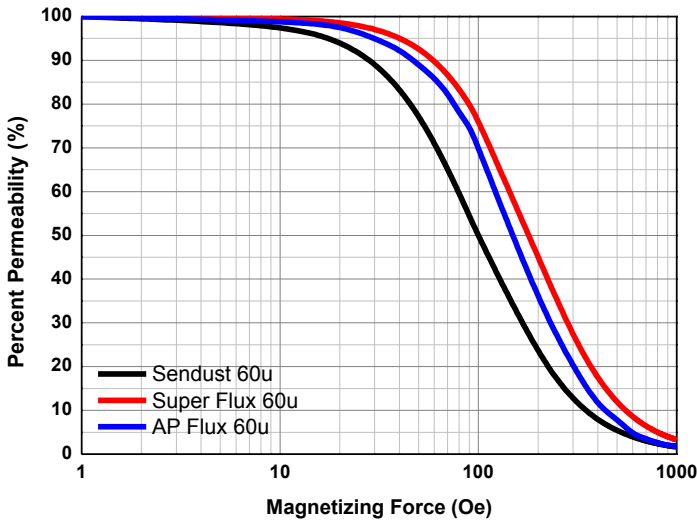


AP-Flux (Amorphous Powder-Flux)

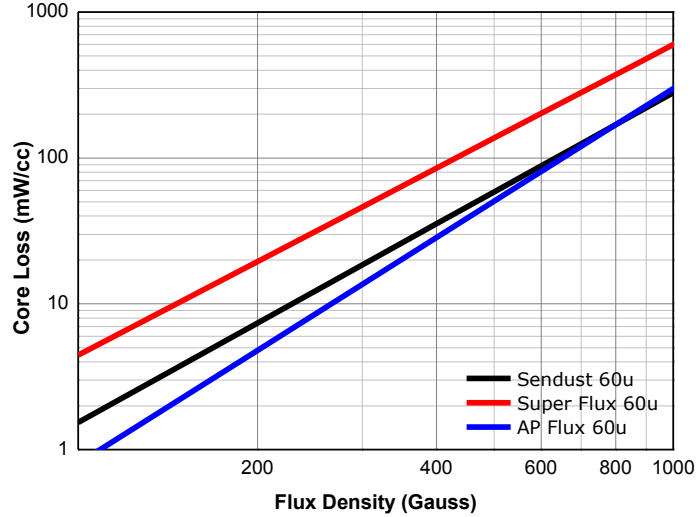


Have you been happen to the problem which the recator take place the heat with high temperature? Here is the smart answer. AP-Flux is a new powder alloy that is ideal for power factor correction(PFC) and output choke. This material have the improvement better than the Sendust or Fe-Si. It is the material that better DC Bais than Sendust and better Core Loss than Fe-Si. AP-Flux cores have the same excellent properties, including soft saturation, as other powder core materials. It is our hope, AP-Flux will be to the best solution for your application.

Permeability vs. DC Bias



Core Loss (at 50kHz)



Comparison of Materials

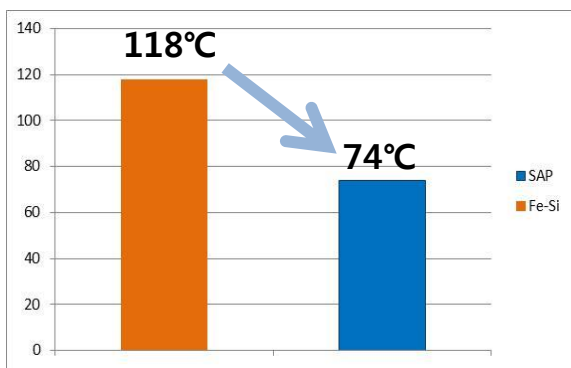
Materials	Perm.	Bs (G)	Core Loss	DC Bias	Cost	Temp. Stability	Curie Temp. (°C)
MPP (Fe-Ni-Mo)	26-200μ	7,000	Lowest	Good-L	Highest	Best	450
High Flux (Fe-Ni)	26-160μ	15,000	Low	Best	High-M	Better	500
AP Flux (Fe-Si-B)	60-90μ	15,000	Low	Good-M	High-L	Good	400
Sendust (Fe-Si-Al)	26-125μ	10,000	Medium	Low	Lowest	Good	500
Super Flux (Fe-Si)	26-90μ	16,000	High	Better	Low	Better	700

AP-Flux (Amorphous Powder-Flux)



In the case of applied to AP-Flux

- ▶ Application : Air-condition 4kW PFC Reactor
- ▶ Problem : Using Reactor Core : Fe-Si OR358 60u 118°C at ΔT 65°C



Result

	Before	After
Wire	1.4Φ	1.6Φ
Core	Fe-Si 358	AP-Flux 330E14
Truns	53	45

Wire ↓ Heat ↓ Efficiency ↑



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