

Fluxtrol Material Selection Guidelines



1388 Atlantic Boulevard
Auburn Hills, MI 48326 USA

P: 1.248.393.2000
1.800.224.5522 USA
F: 1.248.393.0277

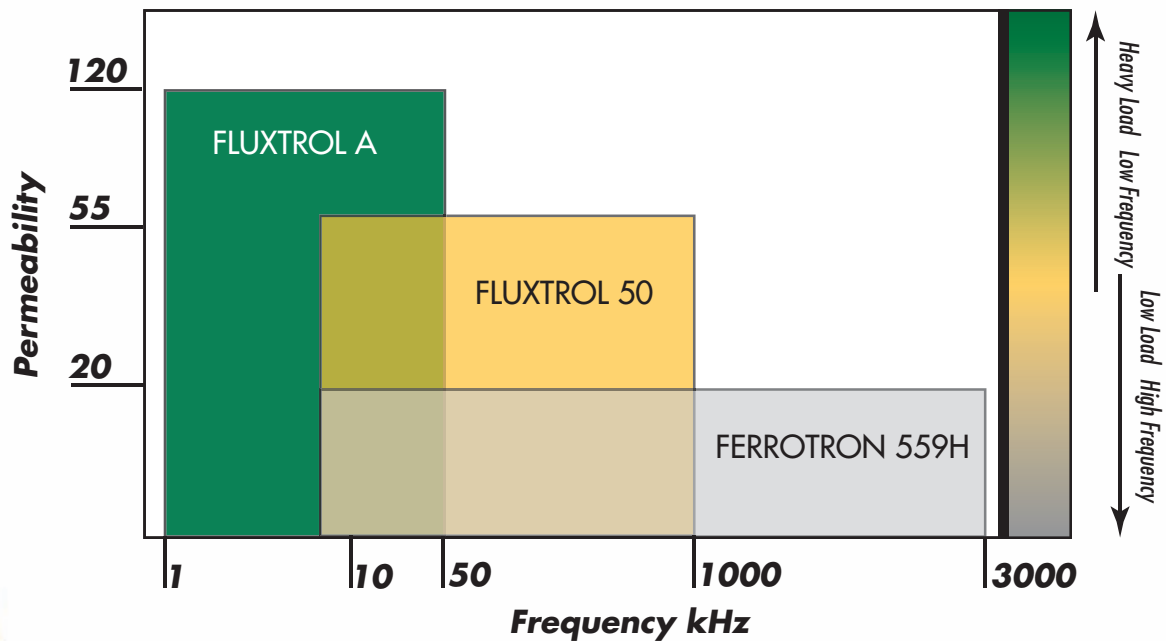
www.fluxtrol.com
sales@fluxtrol.com

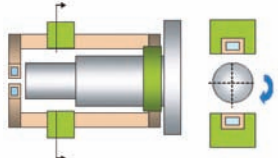
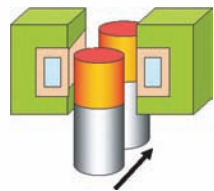
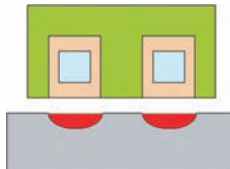
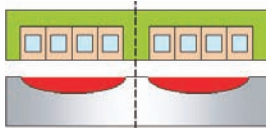
The information provided below is a general reference only to cover the majority of applications. In certain cases (heavily loaded applications, coils with small turn to turn gaps, special cooling conditions, etc.) these guidelines may be non-optimal. For severe or special applications, please contact your Fluxtrol representative or Fluxtrol directly and we will be happy to assist.

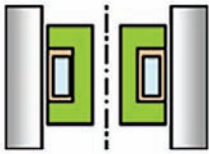
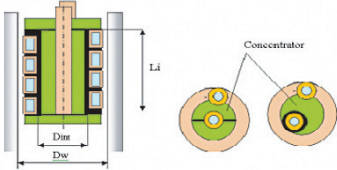
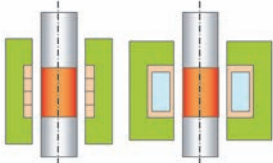
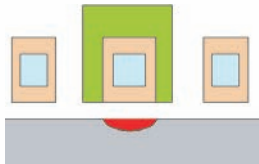
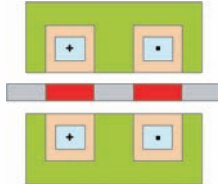
More information regarding material selection and application can be found in Chapter 6 of the Induction Basic Training Course contained in Section 9 of this manual.

All material may be used at frequency lower than rated. For example Fluxtrol "50" and Ferrotron "559H" have been implemented successfully on low frequency, below 10 kHz, coils.

Concentrator Selection Guide



Coil Style	Frequency	Recommended Material
Single Shot 	< 10 kHz 10-50 kHz > 50 kHz	Fluxtrol "A" Fluxtrol "A" or Fluxtrol "50" Fluxtrol "50"
Fastener / Channel 	All Frequencies	Fluxtrol "50"
Hair Pin 	< 50 kHz > 50 kHz	Fluxtrol "50" Ferrotron "559H"
Pancake 	< 50 kHz > 50 kHz	Fluxtrol "50" Ferrotron "559H"

Coil Style	Frequency	Recommended Material
I.D. Single Turn 	< 10 kHz 10-50 kHz > 50 kHz	Fluxtrol "A" Fluxtrol "50" Ferrotron "559H"
I.D. Multi Turn 	< 50 kHz > 50 kHz	Fluxtrol "50" Ferrotron "559H"
O.D. Cylindrical 	< 10 kHz 10-50 kHz >50 kHz	Fluxtrol "A" Fluxtrol "A" or Fluxtrol "50" Fluxtrol "50"
Split & Return 	< 10 kHz 10-50 kHz 50-100 kHz >100 kHz	Fluxtrol "A" Fluxtrol "A" or Fluxtrol "50" Fluxtrol "50" Ferrotron "559H"
Transverse Flux 	< 10 kHz 10-50 kHz 50-100 kHz >100 kHz	Fluxtrol "A" Fluxtrol "A" or Fluxtrol "50" Fluxtrol "50" Ferrotron "559H"