



Official MAGNETIC SHIELD CORPORATION Document

Why are both the ferrite NETIC S3-6 and the Nickel Alloy CO-NETIC AA offered?

The two primary magnetic shield alloys offered by Magnetic Shield Corporation have differing characteristics that sometimes suggest that one or the other (or sometimes both) be used. CO-NETIC AA alloy has the highest magnetic permeability and provides the highest attenuation in a magnetic shield. However, it has a relatively low saturation induction rating. NETIC S3-6 alloy, on the other hand, has a high saturation induction rating and is therefore better suited for strong magnetic fields. NETIC S3-6 alloy cannot achieve the high magnetic permeability of CO-NETIC AA, however, and so provides more modest attenuation factors. If very high attenuation ratios must be achieved in a very strong field, sometimes both alloys must be used. The NETIC S3-6 alloy is used closest to the source of the field to protect the CO-NETIC AA alloy from saturation.