Applications
- Distribution and power transformers
- Motors
- High frequency inductors
- Current transformers
- Devices requiring high permeability and low loss at low frequencies

Benefits
- Extremely low core loss – less than 0.29 w/kg at 60 Hz, 1.35 Tesla, or 40% of the core loss of grade M3 electrical steel (core loss at 50 Hz is approximately 80% of 60 Hz values). This is for finished cores.
- High permeability

Physical Properties
- Density (g/cm³) As Cast ............. 7.18
- Vicker's Hardness (50g load) ........... 900
- Tensil Strength (GPa) ............... 1-2
- Elastic Modulus (GPa) .............. 100-110
- Lamination Factor (%) .............. >82
- Thermal Expansion (ppm/°C) ......... 7.6
- Crystallization Temperature (°C) .... 508
- Continuous Service Temp. (°C) .......... 150

Magnetic Properties
- Saturation Induction (T) As Cast ............. 1.56
- Maximum D.C. Permeability (µ):
  - Annealed .................................. 600,000
  - As Cast ................................... 45,000
- Saturation Magnetostriction (ppm) ........ 27
- Electrical Resistivity (µΩ.cm) ............. 130
- Curie Temperature (°C) .................. 399
Typical Core Loss Curves, Longitudinal Field Anneal
METGLAS Alloy 2605SA1