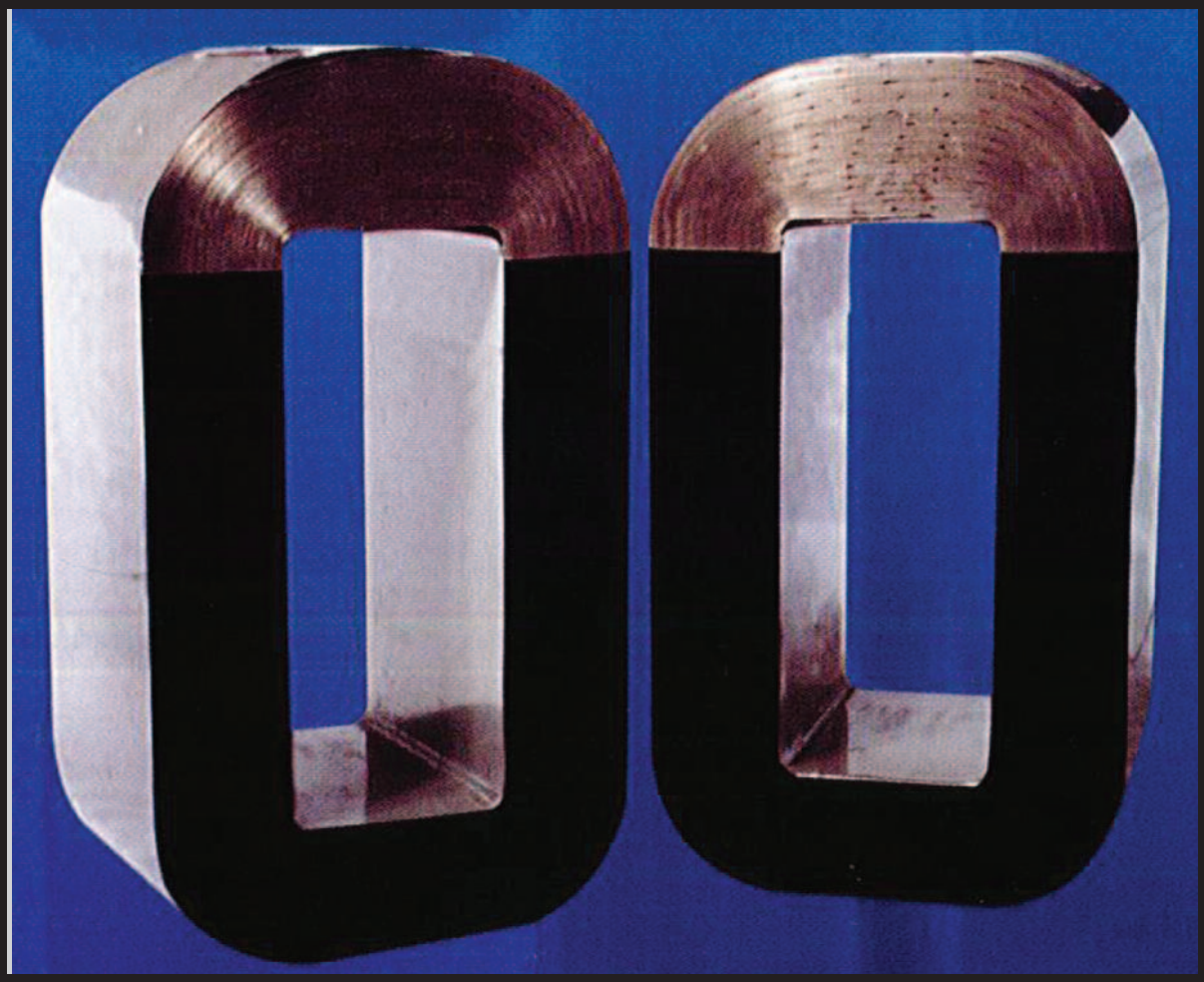
Amorphous Metal Cores 5



MAGNETIC PROPERTIES:

1. Operating Flux Density:
- Typical Single Phase: 1.3 - 1.4 Tesla.
- Typical Three Phase: 1.25 - 1.35 Tesla.

2. Saturation:
- Induction (T) as cast: 1.56.

3. No - load Core Loss and Exciting Power:
- At the test condition of 1.3T, 50Hz, specific loss ≤0.18W/kg; specific exciting power ≤0.45VA/kg.
- At the test condition of 1.3T, 50Hz, specific loss ≤0.20W/kg; specific exciting power ≤0.60VA/kg.
- The no-load loss and exciting power of the three phase - Evans core will be approximately 25% higher and will vary according to specific design.

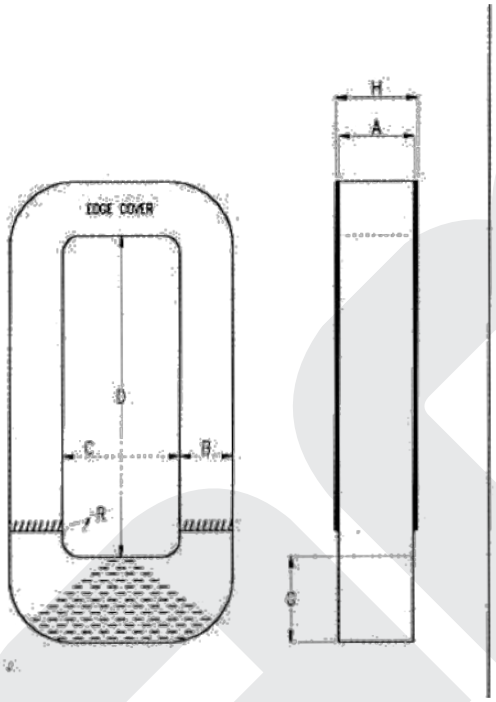
PHYSICAL PROPERTIES:

Core Space Factor:
- Guaranteed Minimum: 86%.

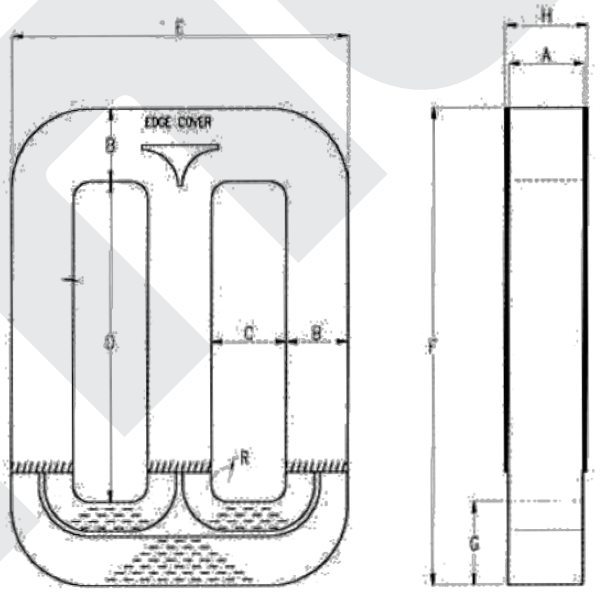
Density:
- g/cm^3 as cast: 7.19.

Core Design Standards:
- Ribbon width (A): 142mm, 170mm, 213mm.
- Core build-up (B): 0~300mm; maximum.
- Window width (C): 55~1500mm; tolerance: +3/-0m.
- Window height (D): 180~2000mm; tolerance: +3/-0mm.
- Joint build (G): B x 1.10~1.20mm.
- Window radius (R): 6.4 +/-1.5mm.
- Outermost layer shearing length: not more than 100000mm.
- Continuous service temperature: 150ºC.

Core surface is coated in Epoxy Resin, not more than 2mm thick per side, (Dimension (H)) Ribbon width +4mm.



SINGLE CORE = CORE TYPE
DOUBLE CORE = SHELL TYPE
2 LARGE + 2 SMALL CORES = 3 PHASE



THREE PHASE - THREE COLUMN EVANS CORE