

## NeoGlas - Impeder Cases for High Frequency Induction Welding

- Greater efficiency of inductive coupling.
- Sizes from 5.0mm to 38.0.
- Compatibility with standard range of rods and tubes.

MMG now add a range of “NeoGlas” ferrite-loaded impeder cases to our range of internationally standard Ferrite rods and tubes. The new “NeoGlas” casings comprise of Ferrite particles loaded at high density into epoxy-glass tubes. Epoxy-glass tubes are commonly used to hold ferrite rods in position during welding, and to direct the flow of cooling water.

The efficiency of a ferrite impeder for directing and concentrating current in high frequency welding systems relates to the efficiency of coupling between the induction coil and the magnetic core. Application-specific Ferrites have been developed for induction welding, but the conventional epoxy-glass casings, while providing high mechanical strength, result in a separation between coil and core reducing efficiency.

The new “NeoGlas” range improves the magnetic loading in coil cross section and moves a shell of Ferrite closer to the coil to improve coupling. These casings are most effective in smaller impeders where the cross section occupied by the casing is proportionally greater.



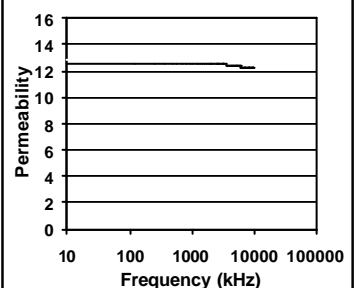
Part Number.	Outer dia (mm)	Outer dia (inch)	Inner dia. (mm)	Inner dia. (inch)	Length (mm)
NG05-04-1000	5.00	0.197	4.00	0.157	1000
NG065-055-1000	6.50	0.256	5.50	0.217	1000
NG08-065-1000	8.00	0.315	6.50	0.256	1000
NG09-08-1000	9.00	0.354	8.00	0.315	1000
NG10-08-1000	10.00	0.394	8.00	0.315	1000
NG11-09-1000	11.00	0.433	9.00	0.354	1000
NG12-10-1000	12.00	0.472	10.00	0.394	1000
NG13-11-1000	13.00	0.512	11.00	0.433	1000
NG14-12-1000	14.00	0.551	12.00	0.472	1000
NG15-13-1000	15.00	0.591	13.00	0.512	1000
NG16-14-1000	16.00	0.630	14.00	0.551	1000
NG17-14-1000	17.00	0.669	14.00	0.551	1000
NG18-15-1000	18.00	0.709	15.00	0.591	1000
NG19-16-1000	19.00	0.748	16.00	0.630	1000
NG19-17-1000	19.00	0.748	17.00	0.669	1000
NG21-18-1000	21.00	0.827	18.00	0.709	1000
NG22-19-1000	22.00	0.866	19.00	0.748	1000
NG23-20-1000	23.00	0.906	20.00	0.787	1000
NG24-21-1000	24.00	0.945	21.00	0.827	1000
NG25-21-1000	25.00	0.984	21.00	0.827	1000
NG28-24-1000	28.00	1.102	24.00	0.945	1000
NG32-28-1000	32.00	1.260	28.00	1.102	1000
NG38-34-1000	38.00	1.496	34.00	1.339	1000

### Compatibility

To specify the correct impeder casing, select an inner diameter 1mm greater than the outer diameter of the ferrite rod/tube to be inserted.

All MMG welding impeder ferrites are manufactured to pass through a full-length gauge with inner diameter equal to the rod/tube outer diameter (nominal) + 1.0mm.

NeoGlas Relative Permeability



MMG can also supply of plain epoxy-glass sleeving with no ferrite loading in 1m lengths on request