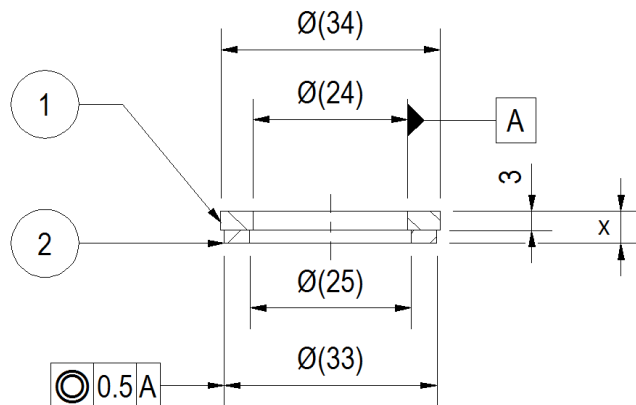


<b>Part</b>	<b>: SCR Magnet ring</b>	<b>Contact</b>	<b>: Maarten de Jonge</b>
<b>Part No.</b>	<b>: 87.6510/00/X</b>	<b>Email</b>	<b>: <a href="mailto:m.dejonge@baktermagnetics.com">m.dejonge@baktermagnetics.com</a></b>
		<b>Phone</b>	<b>: +31 40 2678 820</b>

## 1. Dimensions:



Part No.	Outside diameter (mm)	Inside diameter (mm)	Thickness overall "X" (mm)	Thickness magnet (mm)	Weight (gr)
87.6510/00/3	34	24	5	3	15,59
87.6510/00/4	34	24	6	4	18,79
87.6510/00/5	34	24	7	6	22,32
87.6510/00/6	34	24	8	6	25,65
87.6510/00/7	34	24	9	7	29,04

## 2. Materials:

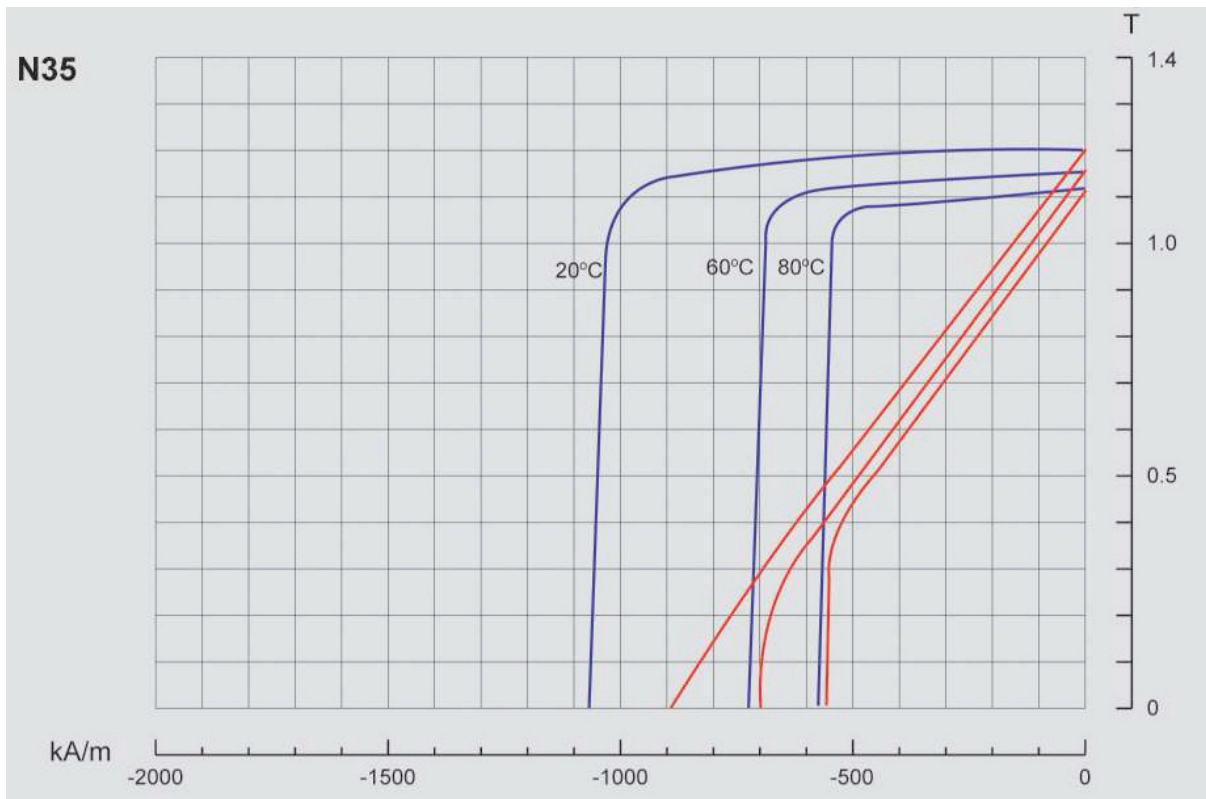
### ① Magnet

Magnet grade	: N35
Coating	: Nickel Copper Nickel Epoxy (4 layers)
Br min (mT)	: 1.170
Br typ (mT)	: 1.220
HcB min (kA/m)	: 870
HcB typ (kA/m)	: 920
HcJ min (kA/m)	: 955
BH min (kJ/m <sup>3</sup> )	: 263
BH typ (kJ/m <sup>3</sup> )	: 279
Max. operating temperature (*)	: 80
Temp.Coeff. of Br:	: -0.11%/°C (20-100C
Curie Temperature:	: 310-340°C
Density: Temp. Coeff. of iHc:	: -0.60%/°C (20-100°C)
Density:	: 7.4-7.6g/cm <sup>3</sup>
Vickers Hardness:	: 570 Hv
Coeff. of Thermal Expansion:	: 4 x 10 <sup>-6</sup> /°C
Thermal Conductivity:	: 7.7kcal/(m.h.°C)
Rigidity:	: 0.64N/m <sup>2</sup>

\* The maximum operating temperature is determined by the final lay-out of the magnetic circuit. The estimated values refer to magnets which are operating at the working point of B/μ<sub>0</sub>H=-1.

**Important notice:** Dimensions and shape of the magnet, in combination with required manufacturing processes, may cause the magnetic and physical characteristics to vary from typical values. Therefore, all data presented in this document are for general reference only and should not be relied upon to represent standard characteristics, nor are they guaranteed upon use. Bakker Magnetics reserves the right to change information in this document, including magnet performance standards, specifications, and characteristics without notice.

**B-H Hysteresis Curve of magnet:**



**② Hybride ring**

Material : S235 JR  
Coating : Epoxy (1 layer)

**3. Remarks**

**Available coatings:**

- Single Nickel
- Nickel Copper Nickel (3 layers)
- Nickel Copper Nickel Epoxy (4 layers)
- Single Epoxy
- Coloured Zinc
- Tin
- 

**Available grades:**

All grades are possible, with max. operating temperatures up to 200°C

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