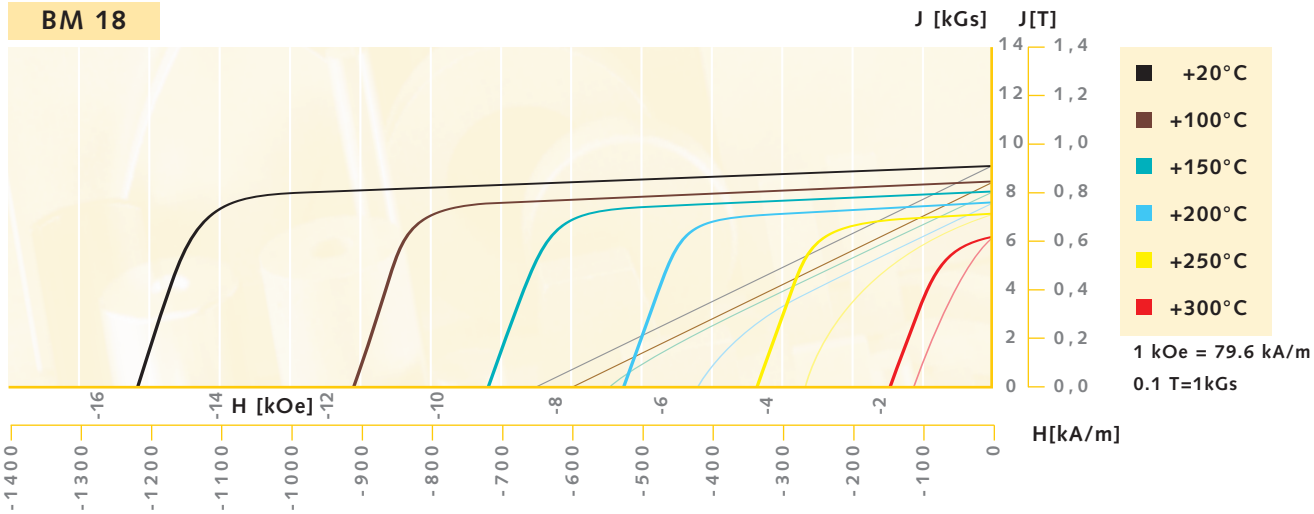
## SAMARIUM-COBALT MAGNETIC MATERIAL

| Name | MAGNETIC PROPERTIES | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Remanence Br (kG) | | Remanence Br (mT) | | Normal coercivity -HcB (kOe) | | Normal coercivity -HcB (kA/m) | | Intrinsic coercivity -HcJ (kOe) | | Intrinsic coercivity -HcJ (kA/m) | | Max. energy product (B-H)max (MGOe) | | Max. energy product (B-H)max Kj/m³ |
| | min | typ | min | typ | min | typ | min | typ | min | typ | min | typ | min | typ | min typ |
| BM 18 | 8.5 | 8.9 | 850 | 890 | 7.8 | 8.4 | 620 | 670 | 13.8 | 15.1 | 1100 | 1200 | 17.6 | 18.8 | 140 - 150 |
| BM 22 | 9.0 | 9.5 | 920 | 950 | 7.9 | 8.8 | 630 | 700 | 10.0 | 13.0 | 800 | 1035 | 18.8 | 22.0 | 150 - 175 |
| BM 24 | 10.0 | 10.5 | 1000 | 1050 | 8.5 | 9.4 | 680 | 750 | 15.0 | 18.8 | 1195 | 1500 | 23.9 | 25.8 | 190 - 205 |

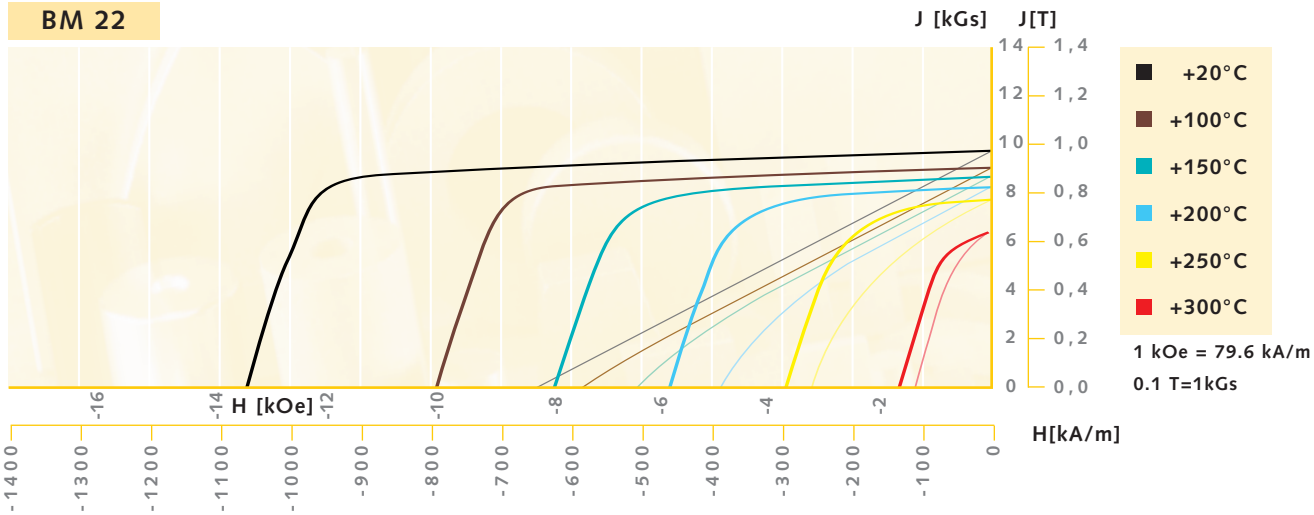
## SAMARIUM-COBALT MAGNETIC MATERIAL

| Name | MAGNETIC PROPERTIES | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Temperature coeff. of Br. %/°C | Temperature coeff. of HcJ. %/°C | Density g/cm³ | Relative recoil permeability μ rev | Curie temperature °C | Continuous maximum operating temp. °C | Recommended magnetising field kOe | Recommended magnetising field kA/m |
| BM 18 | -0.05 | -0.3 | 8.1 | 1.05 | 720 | 250 | 25 | 2000 |
| BM 22 | -0.05 | -0.3 | 8.1 | 1.05 | 720 | 250 | 25 | 2000 |
| BM 24 | -0.03 | -0.2 | 8.3 | 1.05 | 800 | 300 | 50 | 4000 |

### BM 18




### BM 22




### TOLERANCES SAMARIUM-COBALT MAGNETS

Bakker Magnetics is able to guarantee valid tolerances for raw magnets (DIN 17410). Desired tolerances are obtainable on demand and if requested, we can deviate from our standard tolerances.