You can download the demagnetization files for the following magnet grades free. Each excel file contains the digital Demagnetization Curves at various temperatures for a specific grade.

MagWeb’s digital demagnetization curves also list the coordinates of the Knee Point of a magnet.  Operating a magnet beyond its knee point will demagnetize it, thereby degrading its performance. (Unfortunately, manufacturer’s demagnetization curves do not list this critical knee point data)

Version 2 lists this ***Knee Point*** of a grade for each temperature. This knee point is identified by 4 decimals. The data shown in green color refers to data above the knee point.  Magnets should always be operated within the green-colored data range to prevent demagnetization. This knee point data aids the fail-safe design of magnets. It is available only at MagWeb.

**Table. Free B(H) Demagnetization Data for Magnets**

|  |  |  |
| --- | --- | --- |
| **Category Code** | **Category** | **Manufacturerer            Grade** |
| **AM** | **Neodymium Magnets** | **Arnold Magnetics N40UH** |
| **AM** | **Neodymium Magnets** | **Hitachi Metals NMX-48BH** |
| **BM** | **Samarium Cobalt Magnets** | **Dexter Magnetics S3218** |
| **BM** | **Samarium Cobalt Magnets** | **Electron Energy Corp 20-T500** |
| **CM** | **Bonded Molded Magnets** | **BMG 2560** |
| **CM** | **Bonded Molded Magnets** | **Kolektor 86EP** |
| **DM** | **Ferrite Magnets** | **Dexter Magnetics HF085** |
| **DM** | **Ferrite Magnets** | **TDK FB138** |
| **EM** | **Alnico Magnets** | **HPMG LNGT18** |
| **EM** | **Alnico Magnets** | **Thomas & Skinner Alnico 9** |