

# 圧縮成形ネオシムボンド磁石

## Bonded Compression Molding NdFeB Magnetic Property Table

| 材質名<br>Grade | 残留磁束密度<br>Br       |      | 保磁力 Hcb        |     |      |     | 保磁力 Hcj                     |     |      |      | 最大磁気エネルギー積<br>(BH) max |      |                   |     | 密度 D    |      | リコイル<br>透磁率<br>Recoil<br>Permeability | 残留磁束密度<br>温度係数 $\alpha$<br>Br<br>Temperature<br>Coefficient | キュリー<br>温度 T <sub>c</sub><br>Curie<br>Temperature | 最大<br>使用温度 T <sub>w</sub><br>Max. Operating<br>Temperature |     |     |
|--------------|--------------------|------|----------------|-----|------|-----|-----------------------------|-----|------|------|------------------------|------|-------------------|-----|---------|------|---------------------------------------|---|---|--|-----|-----|
|              | Residual Induction |      | Coercive Force |     |      |     | Intrinsic<br>Coercive Force |     |      |      | Maximum Energy Product |      |                   |     | Density |      |                                       |   |   |  |     |     |
| Unit         | T                  |      | kGs            |     | kA/m |     | kOe                         |     | kA/m |      | kOe                    |      | kJ/m <sup>3</sup> |     | MGOe    |      | g/cm <sup>3</sup>                     |   | $\mu_{rec}$                                       | %/ °C  | °C  | °C  |
|              | min                | max  | min            | max | min  | max | min                         | max | min  | max  | min                    | max  | min               | max | min     | max  | min                                   | max   | typ   | typ  | typ | max |
| BNC-2        | 0.30               | 0.40 | 3.0            | 4.0 | 160  | 240 | 2.0                         | 3.0 | 480  | 640  | 6.0                    | 8.0  | 16                | 24  | 2.0     | 3.0  | 4.5                                   | 6.0   | 1.2   | -0.11  | 300 | 160 |
| BNC-4        | 0.40               | 0.50 | 4.0            | 5.0 | 240  | 320 | 3.0                         | 4.0 | 560  | 720  | 7.0                    | 9.0  | 32                | 44  | 4.0     | 5.5  | 5.2                                   | 6.0   | 1.2   | -0.11  | 300 | 160 |
| BNC-6        | 0.50               | 0.60 | 5.0            | 6.0 | 320  | 400 | 4.0                         | 5.0 | 480  | 640  | 6.0                    | 8.0  | 48                | 60  | 6.0     | 7.5  | 5.5                                   | 6.0   | 1.2   | -0.11  | 300 | 160 |
| BNC-8        | 0.60               | 0.68 | 6.0            | 6.8 | 360  | 440 | 4.5                         | 5.5 | 640  | 800  | 8.0                    | 10.0 | 64                | 72  | 8.0     | 9.0  | 5.8                                   | 6.1   | 1.2   | -0.11  | 300 | 160 |
| BNC-8H       | 0.60               | 0.65 | 6.0            | 6.5 | 400  | 480 | 5.0                         | 6.0 | 1120 | 1280 | 14.0                   | 16.0 | 60                | 68  | 7.5     | 8.5  | 5.8                                   | 6.2   | 1.2   | -0.10  | 350 | 180 |
| BNC-8L       | 0.60               | 0.68 | 6.0            | 6.8 | 400  | 480 | 5.0                         | 6.0 | 900  | 1120 | 11.3                   | 14.0 | 64                | 72  | 8.0     | 9.0  | 5.8                                   | 6.2   | 1.2   | -0.10  | 350 | 160 |
| BNC-9        | 0.60               | 0.68 | 6.0            | 6.8 | 400  | 480 | 5.0                         | 6.0 | 640  | 800  | 8.0                    | 10.0 | 68                | 72  | 8.5     | 9.0  | 5.8                                   | 6.2   | 1.2   | -0.10  | 350 | 160 |
| BNC-10       | 0.68               | 0.73 | 6.8            | 7.3 | 400  | 480 | 5.0                         | 6.0 | 640  | 800  | 8.0                    | 10.0 | 76                | 84  | 9.5     | 10.5 | 5.8                                   | 6.2   | 1.2   | -0.10  | 350 | 160 |
| BNC-12       | 0.71               | 0.75 | 7.1            | 7.5 | 440  | 520 | 5.5                         | 6.5 | 720  | 800  | 9.0                    | 10.0 | 84                | 96  | 10.5    | 12.0 | 6.0                                   | 6.2   | 1.2   | -0.10  | 350 | 160 |
| BNC-12L      | 0.72               | 0.76 | 7.2            | 7.6 | 400  | 480 | 5.0                         | 6.0 | 480  | 640  | 6.0                    | 8.0  | 84                | 96  | 10.5    | 12.0 | 6.0                                   | 6.2   | 1.2   | -0.12  | 320 | 160 |