

# 射出成形ネオシムボンド磁石

## Bonded Injection Moulding 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 | 残留磁束密度<br>温度係数 $\alpha$<br>Br<br>Temperature<br>Coefficient | 最大<br>使用温度 Tw<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   |
|              | min                | max | min            | max | min                         | max | min                    | max | min     | max | min | max  | min                    | max | min  | max | min               | max | typ         | typ   | max  |
| BNI-3        | 2.0                | 3.0 | 0.2            | 0.3 | 2.0                         | 3.0 | 160                    | 240 | 6       | 8   | 480 | 640  | 1.5                    | 3.0 | 12   | 24  | 3.9               | 4.4 | 1.2         | -0.11   | 120  |
| BNI-4        | 3.5                | 4.5 | 0.4            | 0.5 | 3.0                         | 4.0 | 240                    | 320 | 7       | 9   | 560 | 720  | 3.0                    | 4.5 | 24   | 36  | 4.2               | 4.9 | 1.2         | -0.11   | 120  |
| BNI-5        | 4.5                | 5.2 | 0.5            | 0.5 | 4.0                         | 4.5 | 320                    | 360 | 7       | 9   | 560 | 720  | 4.5                    | 5.5 | 36   | 44  | 4.5               | 5.0 | 1.2         | -0.11   | 120  |
| BNI-5H PPS   | 4.8                | 5.2 | 0.5            | 0.5 | 5.0                         | 6.0 | 400                    | 480 | 11      | 13  | 880 | 1040 | 4.5                    | 5.5 | 36   | 44  | 4.9               | 5.4 | 1.2         | -0.11   | 180  |
| BNI-6        | 5.0                | 5.5 | 0.5            | 0.6 | 4.0                         | 5.5 | 320                    | 440 | 8       | 10  | 640 | 800  | 5.5                    | 6.5 | 44   | 52  | 4.7               | 5.1 | 1.2         | -0.11   | 120  |
| BNI-7        | 5.4                | 6.4 | 0.5            | 0.6 | 4.0                         | 5.0 | 320                    | 400 | 8       | 10  | 640 | 800  | 6.5                    | 7.5 | 52   | 60  | 5.0               | 5.5 | 1.2         | -0.12   | 120  |
| BNI-8        | 6.4                | 7.4 | 0.6            | 0.7 | 5.0                         | 6.0 | 400                    | 480 | 8       | 10  | 640 | 800  | 8.5                    | 9.5 | 68   | 76  | 5.5               | 5.9 | 1.2         | -0.11   | 120  |