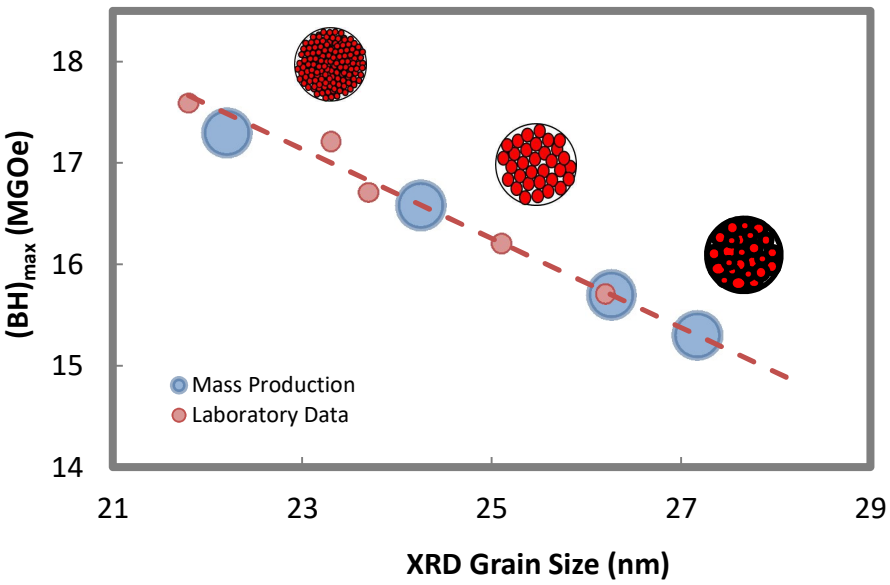
# Advanced Quenching ("AQ") Technology

**Magnequench's AQ Technology has enabled the highest magnetic properties for isotropic magnets in the bonded neo industry**




The high energy product and remanence is achieved by making grain size smaller and more uniform

No raw material changes necessary.

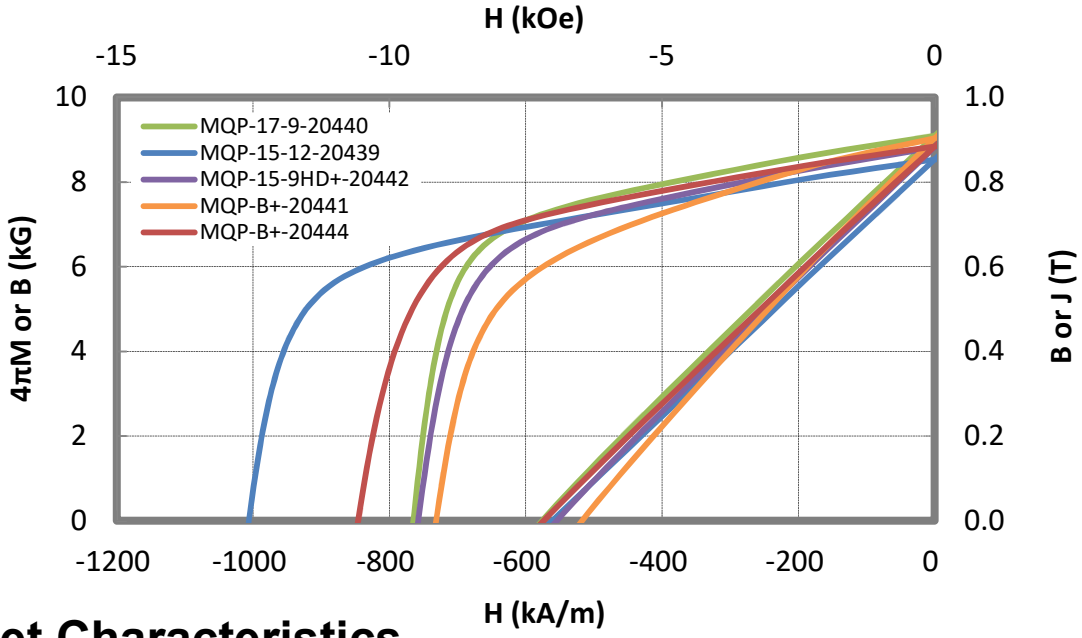
## Powder Grades

| | | Highest magnetic properties in the industry | Highest magnetic properties for high temperature material | Highest magnetic properties, cobalt free grade for higher density magnets | Cobalt free B+ grades | |
|---|---|---|---|---|---|---|
| | | ***MQP-17-9-20440*** | ***MQP-15-12-20439*** | ***MQP-15-9HD+-20442*** | ***MQP-B+-20444*** | ***MQP-B+-20441*** |
| $B_r$ | mT (kG) | 905-915 (9.05-9.15) | 850-860 (8.50-8.60) | 875 – 885 (8.75 – 8.85) | 875-885 (8.75-8.85) | 898-908 (8.98-9.08) |
| $H_{ci}$ | kA/m (kOe) | 745-785 (9.4-9.7) | 950-1030 (11.9-12.9) | 725 - 785 (9.08 – 9.84) | 800-860 (10.0-10.8) | 700-740 (8.8-9.3) |
| $BH_{max}$ | kJ/m³ MGOe | 132-138 (16.6-17.3) | 118-124 (14.8-15.6) | 122 - 128 (15.3 -16.0) | 123-129 (15.4-16.2) | 120-128 (15.0-16.0) |

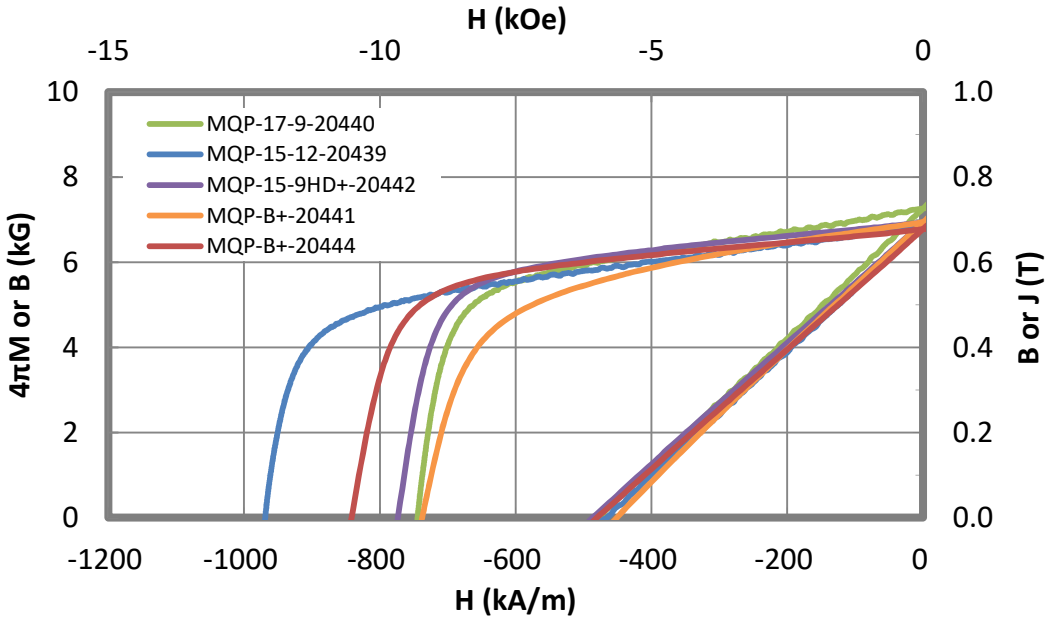
# AQ MQP™ Grades

- **Improved Magnetics:** AQ Powders ensure the magnetic performance of bonded neo magnets continues to improve
- **Narrower Specifications:** AQ Powders have narrower specifications, enabling more consistent magnet and motor performance
- **Improved Minimum Performance:** AQ Powders are produced to have higher minimum specifications to help the supply chain shrink the gap between nominal and minimum specified performance

## Powder Characteristics




## Magnet Characteristics




All AQ MQP™ grades listed are available for sampling and mass production. Other AQ MQP™ grades are available as well, so please contact your sales representative for details.

Please also visit www.mqitechnology.com to find out more details on each individual MQP™ grade.