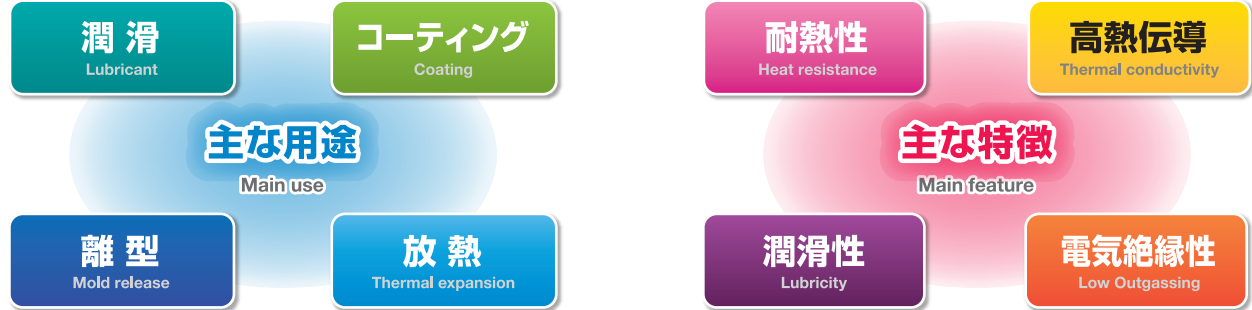


窒化ほう素粉末

Denka Boron Nitride (powder)

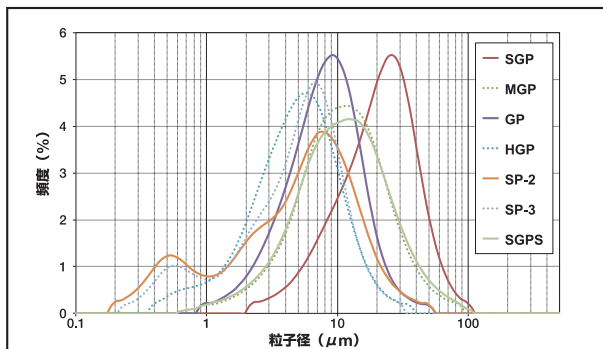


デンカボロンナイトライド粉 各種グレード Line Up

| Grade | | | Platelet | | | | | | | Aggregate |
|---------------------|-------------------------------|-------------------|----------|------|------|------|------|------|------|-----------|
| | | | XGP | SGP | MGP | GP | HGP | SP-2 | SP-3 | SGPS |
| Composition | BN | % | 99 | 99 | 99 | 99 | 99 | 97 | 98 | 86 |
| | B ₂ O ₃ | % | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| | T-O | % | 0.2 | 0.3 | 0.4 | 0.5 | 1.0 | 1.0 | 0.9 | 7.0 |
| | T-C | % | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 |
| Properties | SSA | m ² /g | 1 | 2 | 3 | 6 | 9 | 34 | 25 | 2 |
| | D50 | μm | 30 | 18 | 10 | 7 | 5 | 4 | 4 | 12 |
| | Density | g/cm ³ | 0.8 | 0.8 | 0.8 | 0.5 | 0.4 | 0.4 | 0.4 | 0.5 |
| | G.I. | | 0.9 | 0.9 | 0.9 | 0.9 | 1.2 | 7.5 | 4.0 | 1.5 |
| SEM image - 10μm | | | | | | | | | | |

■表中の値は代表値(Typical value)であり、規格値ではありません

主要グレードの粒度分布
Particle size distribution of major grades.



BNとアルミナの諸特性比較
Comparison of various properties of BN and Alumina.

| | | 単位 Unit | BN | Al ₂ O ₃ |
|----------------------------------|-------------------------------------------|---------------------|-------------------|--------------------------------|
| 熱特性 Thermal characteristics | 熱伝導率 Thermal conductivity | W/mK | 40~80 | 30 |
| | 熱膨張係数 Coefficient of thermal expansion | 10 ⁻⁶ /K | 2.8 | 8.0 |
| 電気特性 Electric characteristics | 抵抗率 Resistivity | Ω·cm | >10 ¹⁴ | >10 ¹⁴ |
| | 誘電率 Dielectric constant | — | 4.5 | 8.9 |
| 比重 Specific gravity | | g/cm ³ | 2.3 | 3.9 |