

# HeBoFill® CL-ADH 020

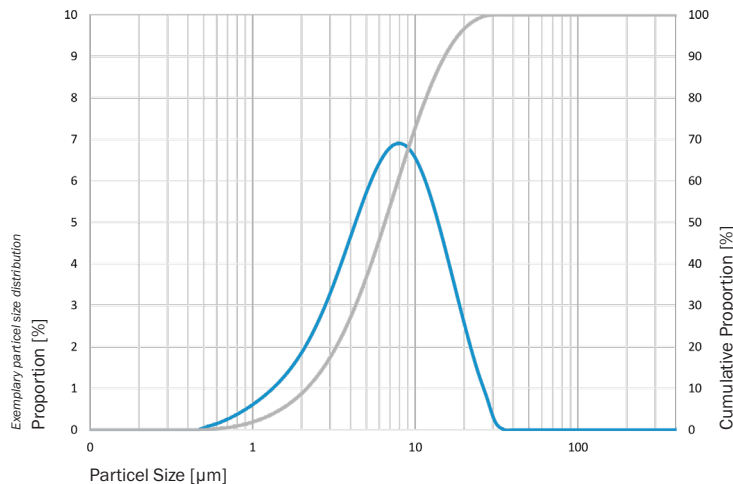
Cool Line - Agglomerate Density High + D<sub>50</sub>

**HeBoFill® CL-ADH 020** is a Boron Nitride powder with a high level of purity, high crystallinity and excellent free flowing characteristics. It is particularly suitable for use as filler and additive in polymer materials to improve their thermal conductivity.

- Advantages**
- ▶ Excellent free flowing characteristics due to the grainy agglomerated particle structure with high strength
  - ▶ Good lubricating properties
  - ▶ Excellent thermal conductivity / see page 2
  - ▶ Electrically insulating
  - ▶ Enables high filling loadings
  - ▶ Low viscosity increase / see page 2
  - ▶ Minimum tool wear in comparison to other filler materials

- Typical Applications**
- ▶ Filler in thermally conductive pastes and potting compounds
  - ▶ Filler for silicone resins, thermoplastics and thermosets
  - ▶ Filler in thermal management applications

- Technical Values**
- ▶ Colour: White
  - ▶ Boron Nitride: > 99.0 %
  - ▶ Total Oxygen: < 0.5 %
  - ▶ Boron Oxide: < 0.1 %
  - ▶ Carbon: < 0.1 %
  - ▶ Specific Surface Area (BET): ~ 4 m<sup>2</sup>/g
  - ▶ Median Particle Size (D<sub>50</sub>): 20 µm



- Packing Units**
- ▶ 1 kg in plastic bags
  - ▶ 10 kg and 25 kg in hard paper drums

**Storage and Safety** Keep dry. Original containers can be stored for at least 12 months from date of delivery. For further information, please refer to the safety data sheet.

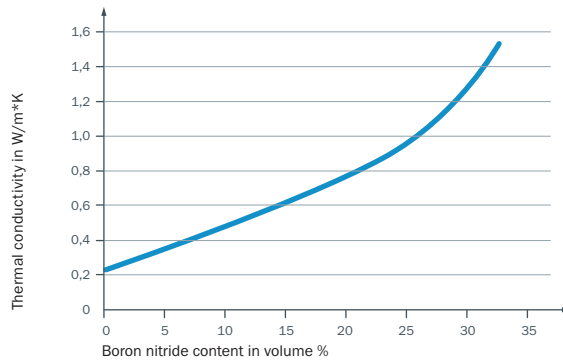
The data quoted in this leaflet are typical for the material. They are intended as a guide only and should not be used in preparing detailed specifications. Actual product data may deviate from the figures given. We reserve the right to alter product data within the scope of technical progress and new developments. Since processing involves factors that are beyond our control, recommendations made in this leaflet should be checked by preliminary trials, especially for third party applications. These recommendations do not absolve the user from the obligation of investigating the possibility of infringement of third parties' rights and, if necessary, from clarifying the situation.

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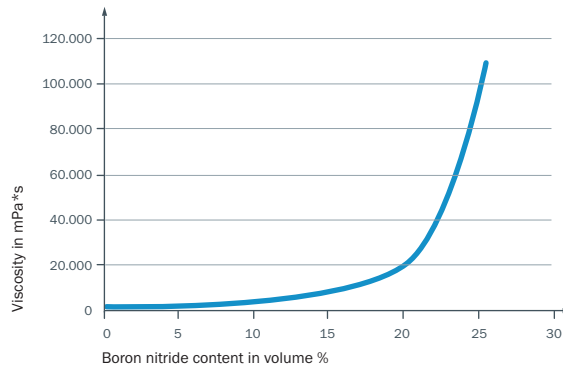
## Thermal and processing properties

### ► Measurement of thermal conductivity



Thermal conductivity measurement via THB 100 in epoxy systems Araldit® casting resin (Carl Roth)

### ► Measurement of viscosity



Viscosity measurement by Brookfield DV2-T at 23° C and 10 RPM in epoxy systems Araldit® casting resin (Carl Roth) spindle 5/7

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