Description
ReleaSys™ HT is a specialized, water-based release agent specifically designed for high temperature molding operations. This formula utilizes a proprietary boron nitride complex to achieve unmatched lubricity and mold release performance. The inert and non-wetting nature of ReleaSys™ HT particles make it an excellent surface coating for molds used to produce castings of light metals such as magnesium and for coating surfaces in glass making operations. Boron Nitride can inhibit corrosion and chemical attack in metal forming, glass-making and sintering processes, thereby increasing die life and improving product quality.

- Water-based; VOC-free formula
- Enhanced surface adhesion and durability
- High Temperature Stability up to 1562°F (850°C) in air; 3272°F (1850°C) in Inert Atmospheres
- Low Dielectric Constant and Loss (ideal for MAG/MIG welding nozzles coating
- Excellent Thermal conductivity
- Low coefficient of friction

Recommended Application Procedure
1. Clean surface thoroughly. Mechanical cleaning such as bead media blasting or steel wool, followed by chemical cleaning, provides the best surface for application of Boron Nitride. Removal of all previous contaminates is critical.

2. Lightly swirl ReleaSys™ HT, making sure to re-disperse all particles prior and during use. Mold temperature would ideally be above 180 °F prior to application. Apply approximately 8-10 inches away from surface, and apply a light coat. NOTE: Material will apply wet and transparent, but will dry to a fine-white coat.

3. Allow to dry completely. Heat mold to operational temperatures (>500° C) to allow boron nitride to adhere to surface. Apply 1-3 coats and repeat heat cycle to maximize release performance. If using as a dry lubricant or barrier, allow to dry and then apply 1 additional coat to guarantee uniform coverage.

Physical Properties:
- Primary Polymer:......Discrete Ceramic particle
- Appearance:..............White particle suspension
- Odor:.....................None
- Specific Gravity:.......1.0 g/mL @ 25°C

Safety Data Sheet (SDS) is available upon request.

The recommendation made here with and the information set forth with respect to the performance or use of our products are believed, but not warranted to be accurate. The products discussed are sold without warranty, as to fitness or performance, express or implied and upon condition that purchasers shall make their own test to determine suitability of such products for their particular purposes. Likewise, statements concerning the possible uses of our products are not intended as recommendations to use our products in the infringement of any patent.