



Silfluo BN-OHT-100

High-Temperature Boron Nitride Modified Release Agent

Description

Silfluo BN-OHT-100 is an oil-based, boron-nitride-modified, high-temperature release agent. The deposited film is designed to provide a combination of toughness, hardness, adhesion, anti-sticking behavior and resistance to yellowing, with a semi-permanent release effect. It is intended to address release problems encountered during forming and molding operations.

Applications

- High-temperature mold and tooling release applications.
- Forming and molding processes requiring a thin, lubricating, anti-stick film.
- Processes involving stainless steel, glass, cast iron, aluminum alloy, titanium alloy, high-temperature alloy steel, glass-ceramics, ceramics and photovoltaic glass.

Applicable Substrates

Stainless steel; flat glass and glass bottles; cast iron; aluminum alloy; titanium alloy; high-temperature alloy steel; glass-ceramics; ceramics; and photovoltaic glass. Formulation and application conditions may need to be adjusted for different substrates.

Applicable Temperature

Available technical data describes use from room temperature up to 1500°C. Actual release performance depends on mold material, process temperature, dwell time and the formed material; the intended process must be validated before production use.

Coating Performance

Test Item	Performance Indicator	Test Method
Component Type	One-component	Not specified
Color and Appearance	Black liquid	GB/T 1721-1979
Solid Content (120 ± 2°C)	>55%	GB/T 1725-2007
Density (g/mL)	0.83 ± 0.02	GB/T 6750-2007
Adhesion	Grade 1	GB/T 9286-1998
Kinematic Viscosity (cSt)	400-600	Not specified
Flash Point	>200°C	Not specified

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Technical Data Sheet



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Construction Parameters

Item	Parameter	Item	Parameter
Application Method	Spray	Spray Distance	20-30 cm
Rest Time After Spray	1-2 min	Film Type	Thin release film
Application Temperature	Room temperature to 1500°C*	Storage Temperature	5-35°C
Shelf Life	12 months	Mixing	Stir thoroughly before use

Special Notes

Settling may occur during extended storage. Stir the product thoroughly until uniform before use. Apply only a thin, even film. The upper service-temperature statement is application-dependent and must be confirmed on the actual mold, substrate and forming process.

Standard Application Procedure: Mold Cleaning -> Product Mixing -> Uniform Spray -> 1-2 min Rest -> Forming Operation

Application Instructions

1. Preparation: Stir Silfluo BN-OHT-100 thoroughly. Remove oil, rust, debris and residual deposits from the mold; ensure that the surface is clean and dry.
2. Spraying: Hold the spray equipment approximately 20-30 cm from the mold and apply at a uniform speed until the molding surface is fully covered by a thin, even film.
3. Resting: Allow the applied film to stand for 1-2 minutes so it can attach uniformly and stabilize before the forming operation.
4. Re-mixing: Re-stir the material if visible settling develops during use.

Safety and Storage

1. Store in a dry, cool and well-ventilated area away from heat and ignition sources. Keep containers tightly closed and handle them carefully.
2. Maintain the storage temperature between 5°C and 35°C. Shelf life is 12 months in the original, unopened and tightly sealed container under the recommended conditions.
3. Keep the one-component product tightly sealed when not in use.
4. Do not return dispensed, mixed or contaminated material to the original container. Dispose of unused material in accordance with local regulations.
5. Material beyond its shelf life may be used only after it passes an appropriate inspection.

Packaging

Available in 1 kg, 2 kg, 5 kg and 25 kg pails.

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Special Note

The information above is based on currently available technical data, laboratory knowledge and practical experience. Because application conditions are outside our control, Silfluo warrants only the quality of the supplied product. Users must determine suitability through their own formulation and application tests and verify applicable local requirements. Contact Silfluo for application guidance.

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