

HBO Microlithography Lamps for Süss Systems



Areas of application

- Microlithography

Product features and benefits

- High spectral intensity with peak irradiance at 365nm wavelength, making it ideal for microlithography
- Designed for long lasting performance
- Qualified with Süss
- Qualified with Süss



Product family datasheet



HBO 5000W/S

Product family datasheet

Technical data

| General Product Information | | | | |
|-----------------------------|---------------------------|-------------------------------|--------------|--------------|
| Product description | Product number (Americas) | Product name (Americas) | Family brand | Lamp type |
| HBO 350 W/S | 69228 | HBO 350W/68V/S 10/CS 1/SKU | HBO | DOUBLE ENDED |
| HBO 1000 W/D | 69200 | HBO 1000W/38V/D 1/CS 1/SKU | HBO | |
| HBO 1000W/DHL | 55003 | HBO 1000W/DHL 1/CS 1/SKU | HBO | |
| HBO 5000 W/S ¹⁾ | | | | |

| | | Electrical Data | | Photometric Data |
|----------------------------|------------------------|-----------------|-----------------|---------------------------|
| Product description | Global order reference | Nominal wattage | Nominal voltage | Light center length (LCL) |
| HBO 350 W/S | HBO 350 W/S | 350 W | 68 V | 52.5 mm ²⁾ |
| HBO 1000 W/D | HBO 1000 W/D | 1000 W | 37.7 V | 89.5 mm ²⁾ |
| HBO 1000W/DHL | HBO 1000W/DHL | 1000 W | 45 V | |
| HBO 5000 W/S ¹⁾ | HBO 5000 W/S | 5000 W | 50 V | 143.5 mm ²⁾ |

| | | Physical Attributes & Dimensions | Operating Conditions | Lifetime Data |
|----------------------------|----------|----------------------------------|--------------------------|------------------|
| Product description | Length | Burning position | Cooling | Nominal lifetime |
| HBO 350 W/S | 127.0 mm | Other ³⁾ | Convection ⁴⁾ | 600 hr |
| HBO 1000 W/D | 240.0 mm | Other ³⁾ | Convection | 1000 hr |
| HBO 1000W/DHL | 206.0 mm | Other | | 2250 hr |
| HBO 5000 W/S ¹⁾ | 360.0 mm | Other ⁵⁾ | Forced ⁶⁾ | |

| Environmental & Regulatory Information Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH) | | | | |
|---|-------------------------------|---|----------------------------|------------------------|
| Product description | Primary article identifier | Declaration no. in SCIP database | Candidate list substance 1 | CAS No. of substance 1 |
| HBO 350 W/S | 4050300258041 4052899528192 | 664a7846-47f2-4d61-8323-e72e69aa88b3 7d7b2d2e-a007-4743-bc1c-a0d10b59e864 | Lead | 7439-92-1 |
| HBO 1000 W/D | 4050300288857 4062172370745 | a7ed535d-b58b-40ea-8c22-64880ddaa6bb 4e65a63f-77e1-4fba-a7be-6830a43f935b | Lead | 7439-92-1 |
| HBO 1000W/DHL | 4008321673145 | 35e19ed5-53bd-45ba-8079-3737c9f2fc21 | Lead | 7439-92-1 |

Product family datasheet

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|---|---|--|----------------------------|------------------------|
| Product description | Primary article identifier | Declaration no. in SCIP database | Candidate list substance 1 | CAS No. of substance 1 |
| HBO 5000 W/S ¹⁾ | 4008321147875 4008321147899 4062172213486 | c0d6f8d6-6d7d- 4632-96fe- 32aacce2ee6a df72245a-57ed-42fb- 90a2-5ca3c09b618d | Lead | 7439-92-1 |

| Product description | Safe use instruction |
|----------------------------|--|
| HBO 350 W/S | The identification of the Candidate List substance is sufficient to allow safe use of the article. |
| HBO 1000 W/D | The identification of the Candidate List substance is sufficient to allow safe use of the article. |
| HBO 1000W/DHL | The identification of the Candidate List substance is sufficient to allow safe use of the article. |
| HBO 5000 W/S ¹⁾ | The identification of the Candidate List substance is sufficient to allow safe use of the article. |

¹⁾ Lamp contains overpressure even in cold status - additional safety regulations, supplied with the lamps, have to be fulfilled. Please read Technical bulletin DO-SEM TB 004 carefully

²⁾ Distance from end of base to tip of anode or cathode (cold)

³⁾ Anode underneath

⁴⁾ Cooling fins on cathode base

⁵⁾ Anode on top

⁶⁾ Maximum permissible base temperature: 200 °C

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Safety advice

Because of their high luminance, UV radiation and high internal pressure (when hot) HBO lamps may only be operated in enclosed lamp casings specially constructed for the purpose. Mercury is released if the lamp breaks. Special safety precautions must be taken. More information is available on request or can be found in the leaflet included with the lamp or in the operating instructions.

Application advice

For more detailed application information and graphics please see product datasheet.

Disclaimer

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.