

## 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



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HBO 5000W/S

Product family datasheet

Technical data

Product description	General Product Information			
	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 <sup>1)</sup>				

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

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

Product description	Environmental & Regulatory Information Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)			
	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

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 5000 W/S <sup>1)</sup>	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 <sup>1)</sup>	The identification of the Candidate List substance is sufficient to allow safe use of the article.

<sup>1)</sup> 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

<sup>2)</sup> Distance from end of base to tip of anode or cathode (cold)

<sup>3)</sup> Anode underneath

<sup>4)</sup> Cooling fins on cathode base

<sup>5)</sup> Anode on top

<sup>6)</sup> 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.

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### Application advice

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

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### Disclaimer

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