

## Technical Information

No. FO 4865

Edition: 06/00 - subject to change

Substitutes: 01/99

Status: valid

Mercury Short Arc Lamp  
for Microlithography

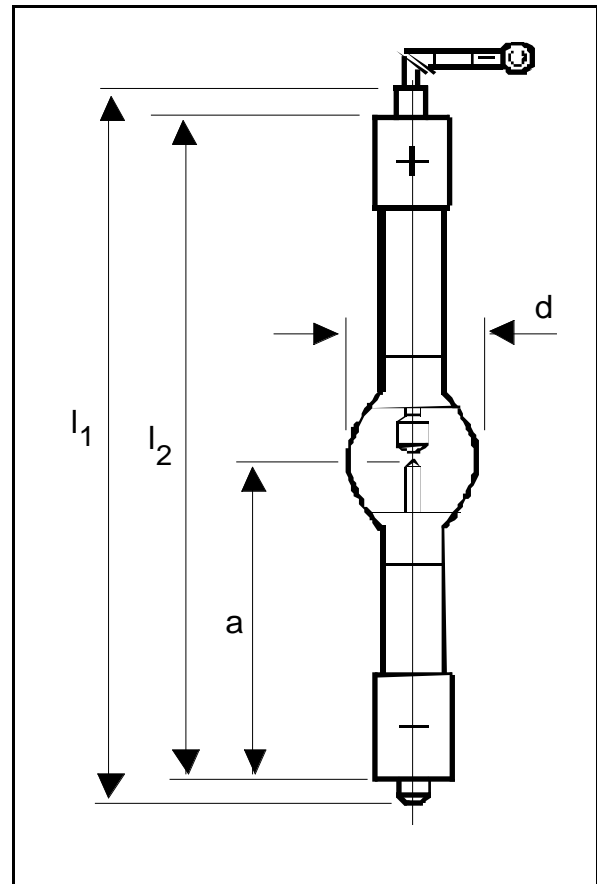
# HBO<sup>®</sup> 2510 W/NIL

### n Product description

The OSRAM HBO<sup>®</sup> 2510 W/NIL is a direct current mercury short arc i-line lamp designed for the manufacture of integrated circuits (microlithography). This lamp type emits a very high radiant intensity in the ultraviolet and visible wavelength range and is especially suited for use in Nikon equipment (NSR-2205 i14E, -i14 E2).

### n Technical data

Order reference	HBO <sup>®</sup> 2510 W/NIL	
Rated lamp wattage	W	2.500
Rated lamp voltage	V	23
Rated lamp current (=)	A	109
Ignition voltage (cold)	kV <sub>s</sub>	max. 20
Radiant intensity (wave length range 350 ... 450 nm)	mW/sr	7.800
Electrode gap e (cold)	mm	4,5
Lamp length (overall) l <sub>1</sub>	mm	max. 367
Lamp length l <sub>2</sub>	mm	325 / max. 327
Bulb diameter d	mm	70
LCL a	mm	157,75
Average service life	h	1.500
Base	<ul style="list-style-type: none"><li>• Cathode: SFc33,5-14/50</li><li>• Anode: SFc33,5-8/50 with cable connection (M8)</li></ul>	



### n Lamp operation

Maximum base temperature	°C	200
Cooling	forced base cooling	
Burning position	vertical, anode (+) up	

The HBO<sup>®</sup> 2510 W/NIL can either be operated on standard ballasts or on electronic power supplies (ECG).

### n Safety Instruction

Because their high luminous efficacy, the UV radiation which they emit and the high pressure within the lamp, HBO<sup>®</sup> lamps must be operated within enclosed, purpose-built housings. When a lamp breaks, mercury is released. Particular safety regulations must be paid attention (for details please request technical information sheet no. FO 4574).