

Technical Information

No. FO 5135

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Substitutes: --/--

Status: valid

Mercury Short Arc Lamp
for Microlithography

HBO[®] 2510 W/NILH

■ Product description

The OSRAM HBO[®] 2510 W/NILH is a direct current high intensity 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 optimized for use in Nikon equipment (NSR-2205 i14E2). Nikon approval process ongoing!

■ Technical data

Order reference		HBO [®] 2510 W/NILH
Rated lamp wattage	W	2,500
Rated lamp voltage	V	23
Rated lamp current (=)	A	109
Ignition voltage (cold)	kV _s	max. 20
Radiant intensity (wave length range 365 ± 2,5 nm)	mW/sr	7,800
Electrode gap e (cold)	mm	4.5
Lamp length (overall) l ₁	mm	max. 367
Lamp length l ₂	mm	325 / max.327
Bulb diameter d	mm	70
LCL a	mm	157.75
Guaranteed life	h	1,500
Base		<ul style="list-style-type: none">• Cathode: SFc33.5-14/50 with thread (M14)• Anode: SFc33.5-12/50 with cable connection (M8)

■ Lamp operation

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

■ Safety Instruction

Because their high luminous efficacy, the UV radiation which they emit and the high pressure within the lamp, HBO[®] 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).

The lamp contains overpressure even in cold status – additional safety regulations, supplied with the lamps, have to be fulfilled.

