

A Halogen Bulb

26 September 2004



halogen lamp which is filled with halogen gas. This creates an equilibrium reaction where evaporated filament is chemically re-deposited at the hot-spots, preventing the early failure of the lamp. This allows halogen lamps to be run at higher temperatures which would cause unacceptable low lamp lifetimes in ordinary light bulbs, allowing for greater brightness and efficiency.

Because the lamp envelope must be very hot for this to work, the envelopes are made of quartz glass instead of ordinary glass, which would soften and flow too much at these temperatures.

In a new development, halogen light now comes in the form of the classic filament bulb. Fitted with the Osram Halolux Classic, even the oldest of lamps will shine with a new luster. The new lamp not only has the size and shape of a conventional filament bulb but also comes with a standard screw base and can therefore be fitted in any lamp or light socket.

Compared to filament bulbs, the luminous efficiency of the Halolux Classic is around 20 percent higher and the lifetime is twice as long. This is achieved through the admixture of small amounts of halogen gas in the bulb, which also prevents the latter from blackening with age, as is the case with conventional filament lamps.

The Halolux Classic offers a quick and easy way of creating a new lighting mood in boutiques, hotel rooms, restaurants and offices, without the need to purchase new lights. It also possesses very good color reproduction properties, is dimmable, has a UV filter, and comes in 40- and 60-watt versions.

About halogen lamp

The problem of short bulb life is addressed in the

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