

## Environmental information on tungsten-halogen lamps

### Tungsten-halogen lamps

Tungsten-halogen lamps contain a filler gas that is 99% or more a chemically inert gas (generally a noble gas such as krypton or xenon). A small proportion (less than 1%) of halogen gases is added to the filler gas. The halogens are added in the form of organic compounds (such as dibromomethane). The high temperatures at the tungsten wire filament when the lamp is first switched on (this takes place in the factory) destroy the organic halogen compounds and tungsten-halogen compounds are formed (such as tungsten bromide).

These very small quantities of halogens in the filler gas give rise to the "halogen cycle" which ensures that the tungsten metal vaporised at high filament temperatures does not condense on the glass bulb but is returned to the filament material.

In practice, tungsten-halogen lamps have two positive environmental aspects compared with ordinary light bulbs: higher luminous efficacy and longer life.

As a supplier of tungsten-halogen lamps we confirm that these lamps do not have to be labelled in accordance with German regulations on noxious substances.

The lamps are CFC-free; no CFCs are used in their manufacture.

No special measures are needed for disposing of these lamps. These lamps are not affected by WEEE.

If you have any queries regarding environmental protection at OSRAM please contact our department: Environmental Affairs & Technical Safety

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