EVEREADY LIGHTING FAQS

What is a halogen lamp?

Halogen is a type of incandescent lamp. It has a tungsten filament just like an incandescent globe; however the bulb is filled with halogen gas. When an incandescent globe operates, the filament heats up creating light and tungsten (a metallic chemical element). The tungsten is evaporated into the gas of the bulb and deposited on the glass wall of the lamp. The bulb "burns out" when the tungsten has evaporated from the filament. Inside the halogen lamp, halogen transports the evaporated tungsten particles back to the filament and re-deposits them there. This gives the lamp a longer life span than regular incandescent lamps and provides a cleaner bulb wall for light to shine through.

Why do halogen lamps last longer than incandescent?

The life of an incandescent or halogen lamp is limited by the condition of their filament. The wire that produces the light when heated is called the filament. If this filament is broken for any reason, the lamp will not work.

During the operation of tungsten filament light bulbs, tungsten from the filament evaporates into the gas inside the light bulb. The tungsten will condense when it comes in to contact with a cool surface. In Incandescent products, the tungsten often condenses on the bulb wall. Due to the fact that the tungsten is redeposited on the wall, the filament grows thin over time. The filament will eventually break because it gets too thin, and will then eventually stop working.

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A Halogen lamp has a special gas inside its lamp that contains halogens. The halogen gas enables the "halogen regenerative cycle". In this process, the halogens carry the evaporated tungsten back to the filament instead of allowing it to deposit on the lamp wall. The filament is delayed from breaking because the tungsten is placed back on the filament instead of the wall. Although the halogen cycle increases the life of the lamp, it cannot last forever. The reason for this is that halogen gases cannot place the tungsten on a specific spot on the filament, nor avoid certain places on the filament. Having too little tungsten, it subsequently breaks.

Interesting facts

In 2004 **Eveready (Pty) Ltd** branched into the lighting industry, offering the South African market 40W, 60W & 100W incandescent lamps. These top of the range lamps are 20% brighter than single coil GLS and have anti-rust bases for easy replacement. EVEREADY Lighting then went further to provide Halogen lamps in the form of 50 WATT Downlighters and PAR38s.

In 2010, **EVEREADY Lighting** forged ahead with its full range of Compact Fluorescent Lamps in line with its commitment to help the market in its energy saving endeavours. This range includes mini & large Spirals, 3U lamps, Downlighters, PAR38s, Candles, Reflectors, coloured Spirals and Day-

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