

Sealed base lamps take headlight design down a new road

Headlight lamps with a seal of quality: HB3 (9005) und HB4 (9006)

HB3 (9005) and HB4 (9006) headlight lamps from OSRAM will make things easier for headlight designers.

In the past, conventional headlight lamps have had to be held in place in the headlight with clips and connected to the electrical system by cables. The bases of the HB3 (9005) and HB4 (9006) lamps, however, fit fully into the headlight without the need for any additional mounting and at the same time provide a water-tight seal for the entire headlight system.

This sealed base system has been successfully used for many years in the USA. Now OSRAM is bringing it to Europe so that European headlight manufacturers can have access to technically mature products. After all, the name of OSRAM is itself a seal of quality in original equipment.



OSRAM

HB3 (9005) and HB4 (9006) for efficient and cost-effective production

OSRAM in the USA has been successfully marketing the HB3 (9005) and HB4 (9006) lamps for many years. The sealed bases on these models have a number of important advantages:

Rapid installation

The three large lugs enable the lamp to fit securely in the headlight without the need for any further support. The lamps can be fitted quickly and easily with just one hand.

No need for a headlight cover

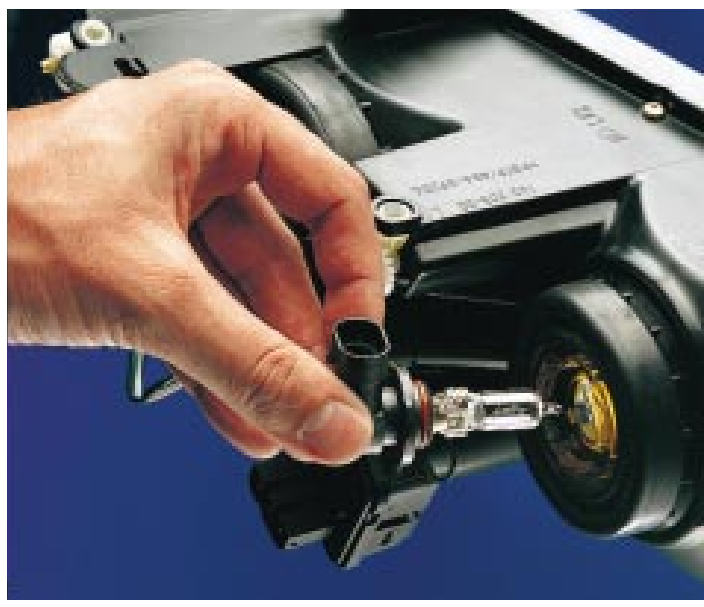
The sealing ring around the base gives these lamps their name. It ensures that the reflector unit is sealed so there is no need for an additional cover cap. The reflector is perfectly water-tight and is protected against corrosion and other environment effects.

Direct electrical contact

The base of the lamp provides direct connection to the car's electrical system. Because the base lies outside the sealed reflector there is no need for expensive cabling in the headlight unit. All the car maker has to do is insert the corresponding sealing connector into the lamp base. What's more, the contacts are ideally protected against corrosion.

Space saving design

Because the lamp base is set at an angle, the unused space behind the headlight can be made smaller. It is so easy to insert and connect the lamp that only a small amount of space is required for manoeuvre. And if the lamp needs replacing, there is no need to remove either the cover cap or any other component to get at the headlight. Good news for drivers.



Nothing could be simpler: insert the sealed base headlight lamp, screw in tight and connect up. No tools required.

One concept - two lamps

A good idea deserves a wide audience, which is why OSRAM offers the HB3 (9005) and HB4 (9006) lamps for high beam and low beam. Two models from a single source.

HB3 (9005) for high beam
Because of its high luminous flux, the HB3 (9005) lamp is used mainly for high beam, illuminating the road far ahead.

HB4 (9006) for low beam
The HB4 (9006) lamp is perfect for the low beam. The anti-dazzle cap ensures that scattered light does not shine directly ahead. All the light is focused on the road. This lamp will last three times longer than a conventional halogen lamp, which makes it an extremely reliable light source.

*Anti-dazzle cap:
Opaque cap for simple
low beam effect*

*Small and compact
filament for precise
focusing*

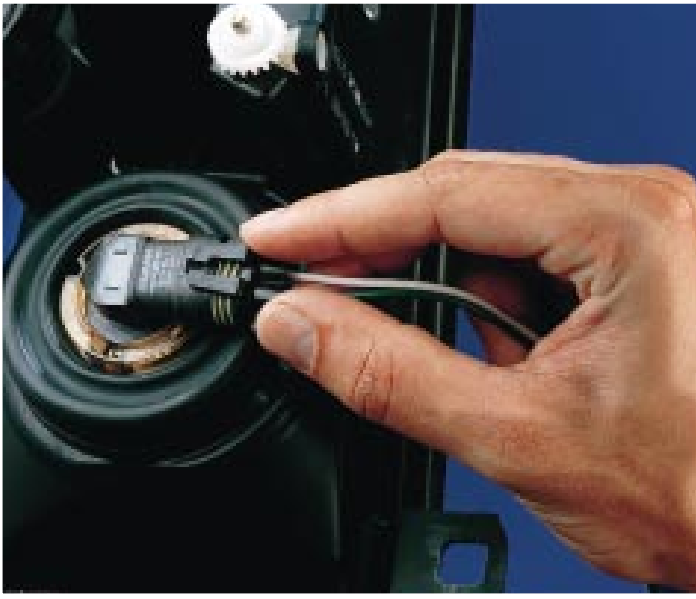
*Sealing ring for sealing
the entire reflector unit*

*Base lugs for complete
support-free locking in
the headlight and coding
of the lamp type*

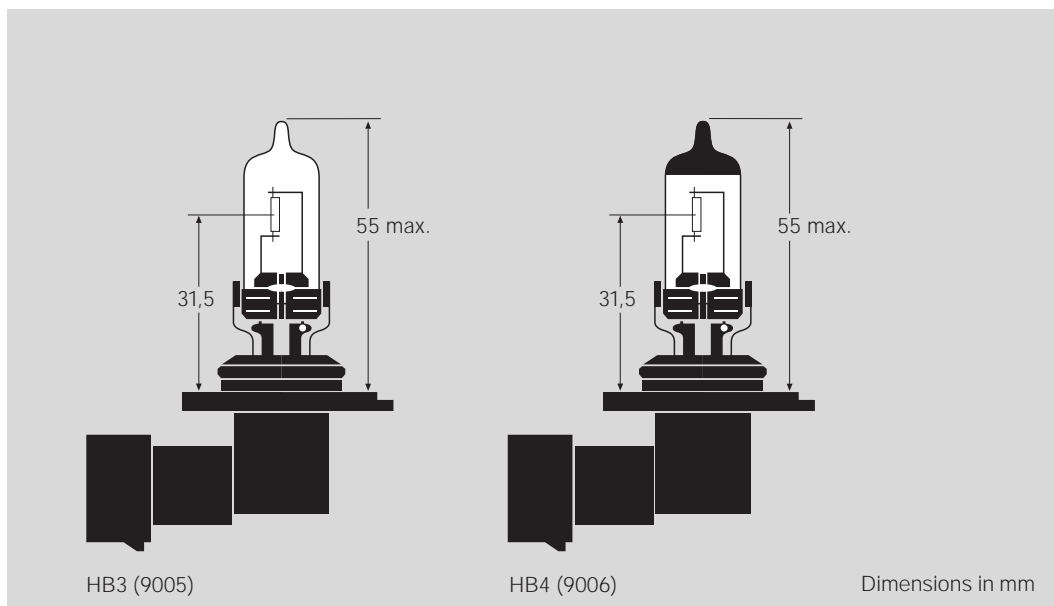
*Base for direct
connection to the
electrical system*

*Recessed contacts
for protection against
corrosion*

*Angled base for direct
space-saving connection*



The HB4 (9006) headlight lamp is also available on request as a special version with increased luminance and tighter tolerances on the filament alignment. For more light on the road and more uniform distribution of the light.



Technical data

Lamp reference	9005	9006
Category	HB3/ECE	HB4/ECE
Rated wattage	65 W	55 W
Test voltage	13.2 V	13.2 V
Luminous flux	1860 lm	1095 lm
Lamp life	B ₃ : 300 h T _c : 1000 h	B ₃ : 1800 h T _c : 3000 h