CLAIMS

[Claim 1] A ceramic metal halide lamp comprising a discharge vessel for containing light emitting material and a translucent outer bulb for accommodating the discharge vessel. wherein

a sleeve is provided between the discharge vessel and the outer bulb. and assuming that a rated lamp power is P [W]. a radius of an inner surface of the outer bulb being R_3 [mm]. a distance between an outer surface of the discharge vessel and an inner surface of the sleeve being t_1 [mm]. and a distance between an outer surface of the sleeve and the inner surface of the outer bulb being t_2 [mm]. the following equations are satisfied.

$(R_3/P) \leq 0.06$ [mm/W]

$1.0 \leq t_2/t_1 \leq 2.0$

[Claim 2] The ceramic metal halide lamp according to claim 1.

wherein further the following equation is satisfied.

$(t_1+t_2)/P \leq 0.037$ [mm/W]

[Claim 3] The ceramic metal halide lamp according to claim 1.

wherein the rated lamp power is equal to or more than 500 W and of horizontal lighting type.

[Claim 4] The ceramic metal halide lamp according to claim 1,

wherein the outer bulb is filled with an inert gas.

[Claim 5] The ceramic metal halide lamp according to claim 1.

wherein further the following equation is satisfied.

$t_1/P > 0.01$ [mm/W]

[Claim 6] The ceramic metal halide lamp according to claim 1.

wherein the sleeve is made of quartz glass.

CLAIMS

[Claim 1] A ceramic metal halide lamp comprising a discharge vessel for containing light emitting material and a translucent outer bulb for accommodating the discharge vessel, wherein

a sleeve is provided between the discharge vessel and the outer bulb, and assuming that a rated lamp power is P [W], a radius of an inner surface of the outer bulb being R_3 [mm], a distance between an outer surface of the discharge vessel and an inner surface of the sleeve being t_1 [mm], and a distance between an outer surface of the sleeve and the inner surface of the outer bulb being t_2 [mm], the rated lamp power is equal to or more than 500 W, the following equations are satisfied.

$(R_3/P) \leq 0.06$ [mm/W]

$1.0 \leq t_2/t_1 \leq 2.0$

[Claim 2] The ceramic metal halide lamp according to claim 1, wherein further the following equation is satisfied.

$(t_1+t_2)/P \leq 0.037$ [mm/W]

[Claim 3] The ceramic metal halide lamp according to claim 1, wherein the ceramic metal halide lamp is of horizontal lighting type.

[Claim 4] The ceramic metal halide lamp according to claim 1, wherein the outer bulb is filled with an inert gas.

[Claim 5] The ceramic metal halide lamp according to claim 1, wherein further the following equation is satisfied.

$t_1/P > 0.01$ [mm/W]

[Claim 6] The ceramic metal halide lamp according to claim 1, wherein the sleeve is made of quartz glass.