

KES

Determination of Lead in
Zink Alloy Die Casting

KES T – M127

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1. Scope of application

This standard shall prescribe atomic absorbance analysis method only for a sample that contains lead of 0.002 ~ 1.6 % in zink alloy die-casting.

2. Summary

Dissolve a sample by hydrochloric acid, then measure absorbance of a calibration curve standard solution and a sample near wavelength of 283.3 nm, obtain concentration of lead from calibration curve which is made out in advance.

3. Test equipment

(1) Atomic absorbance analysis equipment

(2) Optimum condition of atomic absorbance analysis equipment

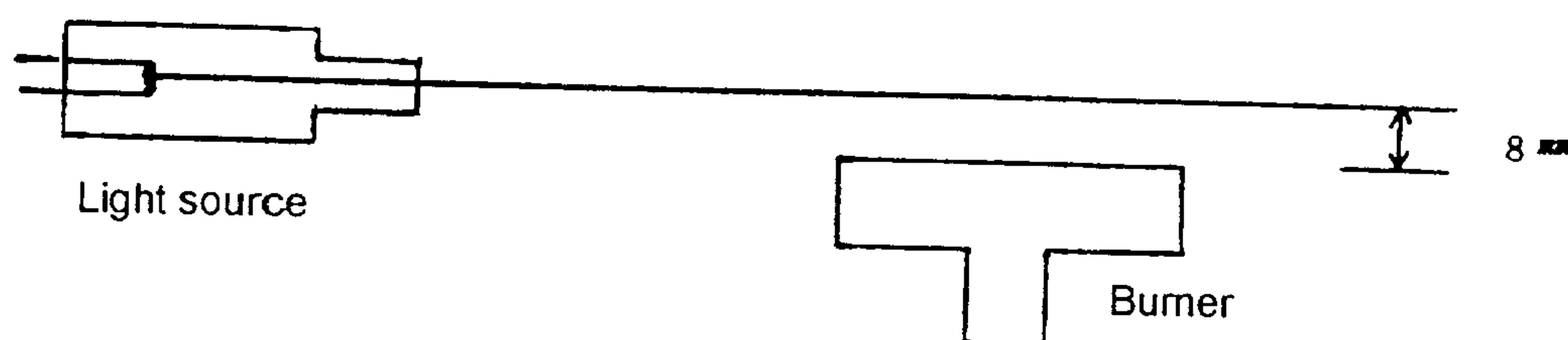
Wavelength : 283.3 nm

Lamp current : 6 Ma

Gas flux : Fuel (C_2H_2) 0.5 kg/cm² (1st) 1.5 ℓ /min (2nd)

Oxidant (air) 5 kg/cm² (1st) 6.5 ℓ /min (2nd)

Burner angle and position



4. Reagent

- (1) Hydrochloric acid (1 : 1)
- (2) Hydrochloric acid (1 : 9)
- (3) Oxygenated water (30 %)