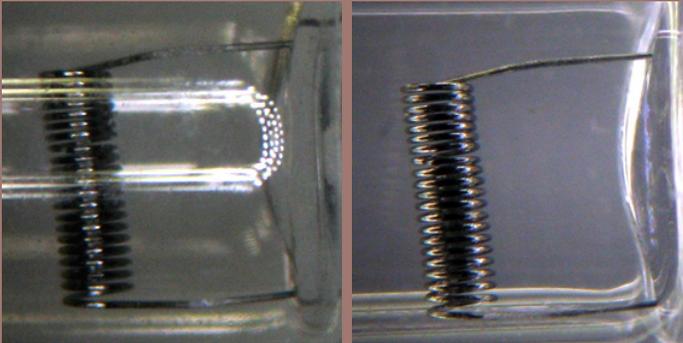
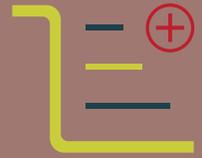


APPLICATION NOTE INDUSTRY



INSPECTION OF A LIGHT BULB

AVOIDING REFLECTIONS ON THE FLASK

HIGHLIGHTING CRACKS IN THE GLASS



Using standard LED illuminations to inspect objects behind a glass or the glass itself creates parasite reflections of the light source on the glass, as clearly illustrated on the flask of a halogen bulb herewith on Fig 1.

FEATURES OF L.E.S.S. ILLUMINATION

- Darkfield illumination
- Easy adjustment of working distance
- Darkfield illumination in "Brightfield Mode" thanks to variable Darkfield height
- Uniform and diffuse illumination with neutral white light (5400 °K)
- Avoidance reflections on mirroring, transparent surfaces
- Free view and easy access to the specimen



APPLICATION

Fig.1 has been taken with a customary 80 LED ring light, at a working distance of about 100 mm. Disturbing reflections of the light source appear on the glass. The filament is hardly visible.

Fig.2 has been taken with the L.E.S.S. Darkfield illumination at an adjusted working

distance of 25 mm, slightly above the sample (in "Brightfield mode"). In this configuration, with the light shining in from the side, reflections disappear: the filament, potential defects or cracks in the glass are clearly visible.

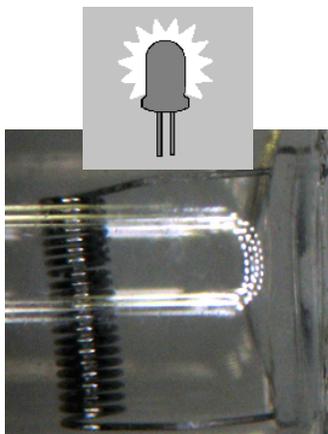


Fig.1
Bulb lit by an 80 LED ring light

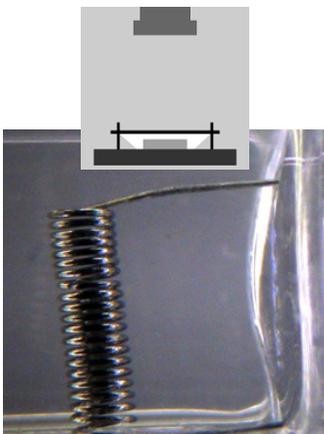


Fig.2
Bulb lit by L.E.S.S. Darkfield

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LESS 
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