

# Liquid Penetrant Testing Visible

Visible dye penetrant is typically red and uses a white developer to draw the dye back to the surface from inside the discontinuities by 'wicking' or capillary action; this is often referred to as the 'colour contrast' method. It is highly visible under natural light and may be used on a variety of materials. It is generally not as sensitive to very small discontinuities as the fluorescent method. However, it does not require special lighting conditions, therefore crews do not have to carry UV-A Lamps, blackout shades or power generators.



## THE Applus+ SOLUTION

Visible dye penetrant testing is a straightforward three-step process consisting of the dye, the remover and the developer (3 cans of product make it easy to transport and utilise). Applus+ only uses penetrant supplies from reputable manufacturers who ensure their products meet code requirements. Our technicians are trained in accordance with a written practice that complies with ASNT-SNT-TC-1A. Applus+ has qualified technicians and staff available to meet its clients' needs as challenges arise.

## Target customers

Visible dye penetrant is commonly used in industries such as oil exploration/production and refining, automotive and maritime, among others. It may be used on a variety of non-porous materials including forgings, castings, ferrous and non-ferrous metals, ceramics, glass and some plastics. This method is highly portable and can be used almost anywhere.