



ITCL



ITCL: Ready for Inspection Liquid Dye Penetrant Inspection (DPI)



What is it?

For an effective low cost inspection, the application of liquid dye is a widely used technique for locating cracks in all non-porous materials such as metals and plastics. It is particularly suitable for non-ferrous, forged, cast or welded products which are prone to cracking.

A visible or fluorescent dye, either solvent or water-based, is applied to the surface or the item by immersion or spray. The dye penetrates any cracks through capillary action (known as the dwell time) and is usually left for a minimum of 20 minutes prior to inspection.

Excess dye is then removed with lint-free cloth leaving none visible to the naked eye.

A developing agent is applied, which, using reverse capillary action, quickly and clearly reveals crack lines. Liquid Dye Penetrant Inspection (DPI) is suitable for components of any size.




Why should I use ITCL?


ITCL prides itself on the high quality of application and testing by experienced technicians.

Our workforce is fully qualified to current standards and works to approved procedures and control checks. Environmental and Health & Safety issues are of paramount concern to all staff working on your site. Expert consultation is always available.

ITCL offers a comprehensive 24hr in-house and on-site service.

Head Office: Elm Court,
Newbridge Road, Ellesmere Port,
Cheshire, CH65 4LY

 +44 (0)151 356 7118

 +44 (0)151 357 1669

 enquiries@itcl.org.uk

 www.itcl.org.uk