



A Division of Illinois Tool Works Inc.

P-1A PARTEK PARTICLE TESTING

General Description:

P-1A Partek is used to locate cracks open to the surface in porous materials, such as unfired clayware, concrete, and certain fired ceramics.

Composition:

P-1A Partek is a green fluorescent material in a petroleum base.

Precleaning:

The parts to be inspected must be free of grease, oil, and dirt prior to inspection. The parts must also be dry (free of water) prior to P-1A Partek inspection. The precleaning can be accomplished with solvents or water based detergents. If water based detergents are used the parts must be rinsed with clean water and thoroughly dried.

Method of Application:

May be applied by pressure spray, flow on or by dipping the inspection parts into P-1A Partek. P-1A must be continuously agitated because the particles will settle out of the solution. Once P-1A is applied, it will penetrate the absorbent body, and the inspection may take place immediately.

Inspection:

On many surfaces the particle concentration at the crack site is detectable in white light. However, for maximum detectability a black light under ultraviolet radiation of 365 nm, such as the MAGNAFLUX ZB-100F fan-cooled black light is recommended.

Post Cleaning:

After P-1A Partek inspection is completed, P-1A may be removed from the test parts with solvents or water based detergents.