

TRI-A FLUORESCENT PENETRANT FOR POROUS MATERIALS INSPECTION



PRODUCT INFORMATION

Ceramics and porous materials are an inspection problem; their absorbent surfaces do not lend themselves to conventional penetrant inspection methods. Yet, cracks resulting from forming, drying and processing must be found before a part is shipped.

TRI-A is both a laboratory and a production test material for locating defects in the early stages of ceramic, plastic, and porous part production. **TRI-A** is suitable for technical ceramics, electrical insulators, and most plastics, as well as many other porous substances, including powdered metals.

TRI-A solution is a "ready-to-use" suspension of yellow-green fluorescent particles and a surfactant-based liquid. It is virtually odorless and nonflammable, with a flash point well above 200°F. **TRI-A** is an OSHA Class IIIB material.

TRI-A is a nonvolatile fluid with a medium particle concentration.

Container Sizes: five gallon pail
one-gallon can
case of 4 one-gallon cans

Basic Instructions: (These instructions describe the basic process of using **TRI-A**. They may need to be amended by the user to comply with applicable specifications and/or inspection criteria provided by the contracting agency.)

1. **Application:** Apply **TRI-A** suspension to the part surface. Normally, **TRI-A** is applied by immersing the part in a well-agitated bath. **TRI-A** suspension can also be applied by flowing or spraying.

Surface openings, such as cracks and checks, will rapidly absorb **TRI-A**, collecting the fluorescent particles in the flaw openings. The area adjacent to a flaw opening will tend to become devoid of solution.

2. A light spray rinse with water under black light will produce an acceptable surface for inspection.
3. **Black Light Inspection:** After a few minutes, inspect the part under black light. Flaw-entrapped fluorescent particles will show as glowing lines or marks under the black light. Black light specifications for fluorescent penetrant inspection apply to **TRI-A**.

TRI-A indications will remain for several hours.

PRECAUTIONARY INFORMATION

TRI-A is a combustible liquid. Use with adequate ventilation and away from sparks, fire or open flame. Avoid prolonged or repeated contact with skin. Do not take internally. Avoid prolonged or repeated breathing of **TRI-A** vapors. **DANGER!** Causes eye burns. First Aid: flush eyes with water for 15 minutes; call a physician. Read the container label and the Material Safety Data Sheet for additional precautionary information.

SHERWIN
INCORPORATED

5530 Borwick Ave.
South Gate, CA 90280
(562) 861-6324
FAX (562) 923-8370