

**ZYGLO®**

## ZP-9F Non-Aqueous Developer

Classification: *Form d Non-aqueous Type 1 Fluorescent (solvent based)*  
*Form e Non-aqueous Type 2 Visible Dye (solvent based)*

### General Description:

ZP-9F is a ready to use suspension of white developing particles in a fast drying solvent. ZP-9F produces an opaque white coating, which provides an excellent contrasting background for SPOTCHECK OR ZYGLO penetrant indications. ZP-9F is non-halogenated.

### Composition:

ZP-9F is a dispersion of organic particles in isopropyl alcohol and acetone.

### Typical Properties (Not a Specification):

Flash point:	2° F (PMCC)
Density:	7.0 lbs./gal (875g/L)
Corrosion:	Non-corrosive on metals including steel, aluminum, and magnesium
Coating:	White film that is water washable
Sulfur Content:	Less than 1000 ppm
Chlorine Content	Less than 1000 ppm

### Method of Application:

On standing, developer particles will settle out of suspension and must be re-suspended before applying. ZP-9F should be applied by spraying only, as dipping or brushing will cause excessive solvent action on the penetrant in discontinuities. ZP-9F may be applied by aerosol, or conventional spray gun.

Developers should be applied only after the test surface has been cleaned of excess penetrant, and the cleaning medium has been dried off. Non-aqueous developers should be sprayed in thin even layers, which just wet the surface. Too wet a spray will cause excessive bleeding and running of indications; whereas too dry a spray will result in slow indication development as well as possible loss in overall sensitivity due to limited solvent action. The coating should be a relatively thin even white coating. ZP-9F's unique formula provides a thin coating that hides surface blemishes. A thick coating is not required for this effect and is undesirable as masking of indications could result. ZP-9F gives a dense coating which is ideal for fluorescent inspection. With ZYGLO penetrants, inspection is performed with a black light (such as our ZB-100F fan-cooled black light) and cracks will fluoresce a yellow/green color. Note! A general greenish fluorescent developer film indicates incomplete removal of surface penetrant.

### Specification Compliance:

AMS 2644, MIL-STD-271, MIL-STD-2132, AECL, ASME B & PV Code, Section V, Boeing PS-21202, AMS 2647, ASTM E1417, ASTM E 165, NAVSEA 250-1500-1, Boeing BAC 5423, GE P50YP107

# Product Data Sheet



**ZYGLO®**

Packaging:

5 gallon pail and aerosols

Coverage:

1 gallon approximately 800 square feet

1 aerosol can (16 oz. by volume) approximately 65 square feet