

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 specially formulated to be low in sulfur and halogens and contain no chlorinated hydrocarbons.

### 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 (*solvents* such as SKC-S/ SKC-HF or *water*) 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

ZP-9F Non-Aqueous Developer

Revised 5/9/03

**MAGNAFLUX®**

A Division of Illinois Tool Works Inc.

# PRODUCT DATA SHEET

The logo for ZYGLO, featuring the word "ZYGLO" in a bold, white, sans-serif font with a registered trademark symbol (®) to its upper right. The text is set against a green arrow-shaped background that points to the left.**Packaging:**

aerosols, 5 gallon pails

**Coverage:**

1 gallon approximately 800 square feet

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