





Phone: 913-685-0675, Fax: 913-685-1125 www.ndtsupply.com, sales@ndtsupply.com

D-106 Non-aqueous Developer

Technical Data Sheet

Description: D-106 developer consists of refined white particles suspended in a solution of acetone and isopropyl alcohol. This suspension produces enhanced sensitivity for locating tight flaws. **D-106** developer pulls flaw-entrapped penetrant to the part surface for display against a white background by solvent and capillary action. Complies with low sulfur and low halogen requirements.

Chemical Properties

Color: White Suspended Particles

Boiling Point: 133°F (56°C) Flash Point: -40F(-200C)

Specific Gravity: 0.79

Companion Products

All fluorescent and visible dye penetrants.

Packaging

One Gallon Cans 55 Gallon Drums

Five Gallon Pail 16oz. Aerosol Cans (9 cans per case)

Storage /Shelf Life

Keep away from moisture and sunlight. Temperature limit: 40° F to 125° F (0-50°C) Keep the container closed when not in use.

Shelf life from invoice date: Bulk Container – 36 months / Aerosol Cans – 36 months

Specifications

SAE AMS 2644 & QPL - Form D & E

MIL-I-25135 Revisions E ASME Code NDT, Sec V

Lockheed Martin MTU

Boeing Rolls Royce Honeywell Turbomeca Pratt & Whitney FPM Airbus

General Electric Northrup Grumman







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Special Features

- 1. **D-106** lays on the surface in a thinner, more uniform, more absorbent coating.
- 2. **D-106** has superior suspension properties.
- 3. It is easily removed by light brushing or spray water rinse.
- 4. **D-106** works well on smooth or rough surfaces.
- 5. **D-106** can be used on machined or coated surfaces.
- 6. **D-106** can be used with both visible and fluorescent penetrants.
- 7. **D-106** evaporates very rapidly.

Instructions

Note: These instructions describe the basic process, but they may need to be amended by the user to comply with applicable specification and/or inspection criteria provided by the contracting agency.

- 1. **Application:** Apply penetrant only to clean, dry surfaces by spraying, flowing, brushing or dipping.
- 2. **Dwell Time:** A 10 minute dwell time is suggested, although in many cases five minutes will suffice. When particularly tight cracks are suspected, or the part is especially critical, the dwell time may be extended to 30 minutes, or longer. Allow the penetrant to drain from the part surface back into the penetrant tank to conserve material.
- 3. **Removal**: Use the appropriate washing method to remove the excess penetrant from the surface.
- 4. **Developing**: After agitating the **D-106** suspension, evenly spray a light slightly wet coasting of developer onto the dry surface of a part. An overly wet application lacks full developing action. Two or three light applications work better than a single heavy application. Too heavy an application may conceal indications. If **D-106** is to be applied with a paint spray gun, the spray gun should have a vaporizing tip, the spray tank should be pressurized to 15-30 pounds of pressure and have a stirrer to keep the powder in suspension.
- 6. **Inspection:** Inspect parts under appropriate light intensity.

Health & Safety

D-106 is highly flammable, use in a well-ventilated area. Avoid prolonged or repeated inhalation of vapor and contact with skin. Do not take internally. Consult the MSDS for more safety and health information.