

ZP-4B

Dry Powder Developer

ZYGLO® ZP-4B is a free-flowing, white fluffy powder supplied ready to use. It forms a thin white film for a contrasting background around penetrant indications, which enhances the visibility of ultra-fine discontinuities.



FEATURES

- Even, thin developer coverage
- Enhances visibility of ultra-fine discontinuities

SPECIFICATION COMPLIANCE

- AMS2644
- ASME B & PV Code, Sec V
- ASTM E165/E165M
- ASTM E1417/E1417M
- EN ISO 3452-2
- MIL-STD-2132D
- MIL-STD-271F
- Pratt & Whitney PMC 4356-4
- Rolls Royce RRP 58003 (CSS 232)
- SAFRAN Pr 5000/In 5000

APPLICATIONS

Defect location: open to surface

Ideal for:

- Castings
- Turbine components
- Critical components

Defect examples:

- Cracks
- Seams
- Porosity

COMPOSITION

A mixture of inert developing powders.

PRODUCT PROPERTIES

Form and colour	Fluffy white powder
AMS 2644 class	Form a - Type 1
Density	0.25 g/cm ³
Sulphur content	< 200 ppm
Chloride content	< 350 ppm
Corrosion	Meets AMS 2644

Like all Magnaflux materials, ZP-4B is closely controlled to ensure batch-to-batch consistency, optimum process control and inspection reliability.

USER RECOMMENDATIONS

NDT Method	Penetrant Testing
Storage temperature	10°C to 30°C
Usage temperature	5°C to 55°C
Cleaner/remover	SKC-S
Water-washable penetrants	AL-4B, SKL-WP2, SKL-LT, ZL-15B, ZL-19, ZL-60C, ZL-60D, ZL-67B, ZL-56
Post-emulsifiable penetrants	SKL-SP2, SKL-LT, ZL-2C, ZL-27A, ZL-37

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INSTRUCTIONS FOR USE

Before using any developer, ensure the test surface is clean, free from excess penetrant, and dry. Residue from water-based penetrants can be removed with a water spray; solvent-based penetrants by wiping with a solvent cleaner.

With **visible penetrants**, cracks will appear as red lines and porosity as spots. If you see a general reddish colour or pink film, that means the penetrant was not completely removed.

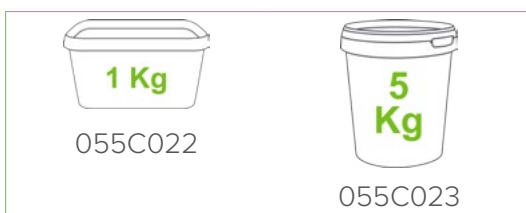
With **fluorescent penetrants**, indications will fluoresce bright yellow/green under UV light (we recommend our EV6000 UV-LED lamp). If you see a general greenish film, that means the penetrant was not completely removed.

Apply by dusting, powder puffer, powder storm or electrostatic spray.

Allow a development time of at least 10 minutes before inspecting under UV(A) light.

After inspection, developer residue can be removed by wiping with a cloth, or by a water and detergent wash.

PACKAGING AND PART NUMBERS



HEALTH AND SAFETY

Review all relevant health and safety information before using this product. For complete health and safety information, refer to the Safety Data Sheets, which are available at eu.magnaflux.com.