

# ZP-4B

## Dry Powder Developer

A developer applied to oven dried parts following the use of penetrants. Its distinctive feature is that it forms a thin film on parts. This film enhances the visibility of ultra-fine discontinuities.

ZP-4B is listed on the QPL SAE AMS 2644 Qualified Product List and is approved for use by Pratt & Whitney.



### BENEFITS

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

### SPECIFICATION COMPLIANCE

- AECL
- AMS 2644
- AMS 2647
- ASME
- ASTM E1417
- ASTM E165
- Boeing BAC 5423 PSD 6-46 or 8-4
- Boeing PS-21202
- GE P3TF2
- Honeywell EMS 52309
- ISO 3452-2
- MIL-STD-2132
- MIL-STD-271
- Pratt & Whitney PMC 4356
- QPL SAE AMS 2644

### APPLICATIONS

**Defect location:** open to surface

**Ideal for:**

- Castings
- Turbine components
- Critical components

**Defect examples:**

- Cracks
- Seams
- Porosity

### PROPERTIES

<b>Particle Size</b>	< 30 µm
<b>Density</b>	15 lb./ft. <sup>3</sup> (240 kg/m <sup>3</sup> )
<b>NPE-Free</b>	Yes

### USE RECOMMENDATIONS

<b>NDT Method</b>	Penetrant Testing
<b>Form(s)</b>	a
<b>Usage Temperature</b>	40 to 125°F / 5 to 52°C
<b>Storage Temperature</b>	50 to 86°F / 10 to 30°C

### **INSTRUCTIONS FOR USE**

ZP-4B may be applied by dusting, spraying, or dipping. Dipping is the least preferred method of application as some indication scrubbing can result and developer can become contaminated quickly with penetrant. Electrostatic spray application is possible, but care is required to prevent excessive developer build-up which will mask indications. For best results, allow a minimum of ten minutes for developing time before inspecting.

### **PACKAGING**

10 lb / 4.53 kg pail 01-3328-69

20 lb / 9.07 kg pail 01-3328-75

### **HEALTH AND SAFETY**

Review all relevant health and safety information before using this product. For complete health and safety information, refer to the product Safety Data Sheet, which is available at [www.magnaflux.com](http://www.magnaflux.com).