

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.



This product will be discontinued in July 2022. For new applications use [ZP-4D](#).

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

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

USE RECOMMENDATIONS

NDT Method	Penetrant Testing
Form(s)	a

Usage Temperature	40 to 125°F / 5 to 52°C
Storage Temperature	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.