

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 logo is set against a green arrow-shaped background that points to the left.

ZP-4B Zyglo Dry Powder Developer

Classification: Form a – Dry Powder Developer

General Description:

ZP-4B is a free flowing, white, fluffy powder used as a high sensitivity dry powder developer for Zyglo penetrants. ZP-4B is supplied ready to use. ZP-4B forms a thin film on parts which enables it to enhance indications of ultra fine discontinuities. ZP-4B's high purity allows it to be used in applications demanding purity.

Composition:

ZP-4B is composed of inert organic and inorganic coating materials.

Typical Properties (Not a Specification):

Color:	Off-white non-fluorescent
Particle Size Range:	Sub-micron to 30 microns
Sulfur Content:	Less than 1000 ppm
Chlorine Content:	Less than 1000 ppm
Sodium:	Less than 500 ppm

Method of Application:

ZP-4B Dry Powder Developer is applied to the test surface after part has been dried. ZP-4B may be applied by dusting, spraying, dust clouding or dipping. Dipping is the least preferred method of application as some indication scrubbing can result and developer can become contaminated quickly with fluorescent specks. Electrostatic spray application is possible, but care is required to prevent excessive developer build-up which will mask indications; fillet areas may not receive developer on the other hand and indications will not be enhanced.

ZP-4B produces bright yellow green indications with Zyglo penetrants. It is recommended that a developing time of at least 10 minutes be allowed prior to inspection for full indication development.

Specification Compliance:

AMS 2644, ASTM E 165, MIL-STD-271, ASTM E 1417, MIL-STD-2132, ASME B & PV Code, Sec. V, Boeing BAC-5423 PSD 6-46 or 8-4, Boeing PS-21202, Pratt & Whitney FPM, Honeywell EMS 52309, AMS 2647, General Electric P3TF2, AECL