

Ardrox[®] 9D4A

Dry Powder Developer

PRIMARY APPLICATION

Ardrox[®] 9D4A is a Form a, dry powder, developer. It is a homogeneous blend of synthetic white powders of very small particle sizes. It does not contain any mined materials. The product has very low impurity levels.

Ardrox 9D4A dry powder developer is used to develop any approved fluorescent penetrant. This developer does not have any significant effect on any common materials of construction and is completely safe to use on all metals, plastics, and rubbers when used in the prescribed manner.

CHEMICAL CHARACTERISTICS

Physical Form	Light, fluffy, free flowing, non-fluorescent white powder
Bulk Density	187 g/l
Sulfur Content	< 500 ppm
Chloride Content	< 500 ppm
Fluoride content	< 50 ppm
Sodium Content	< 100 ppm
Particle size range.....	Submicron to 20 micron

APPROVALS

AMS 2644	ASTM E-165
NAVSEA 250-1500-1	Bechtel SS-10
General Electric	Rolls Royce
McDonnell Douglas	Garrett EMS 52309E
ASME Boiler and Pressure	Detroit Diesel Allison
Vessel Code:	Pratt & Whitney PMC 4356
Section V, Article 6	Boeing BAC 5433

APPLICATION PROCEDURE

After properly cleaning the component to be inspected, applying the penetrant, processing and drying the component, apply Ardrex 9D4A via a Dust Storm Cabinet, Electrostatic Spray Gun, Sufflator, or Flock Gun.

Ardrox 9D4A dry powder developer is used as supplied. After application of the developer the components must be left in contact with the powder for a minimum period of 10 minutes before inspecting under UVA (365 nm) illumination in a darkened area.

For optimum results on very fine defects, allow Ardrex[®] 9D4A to develop for 30 minutes.

EFFECTS ON MATERIALS

Ardrox[®] 9D4A has no effect on most common materials of construction. It is safe to use on steel, aluminum, brass, bronze, copper, magnesium, cadmium plate and titanium.

SAFETY AND HANDLING

Prior to handling and use of any of the materials referenced in this document, the Material Safety Data Sheets should be read and understood by all personnel in contact with these materials.

KEEP OUT OF REACH OF CHILDREN

STORAGE

Dry indoor storage at temperatures between 40°F and 100°F is recommended, away from any incompatible materials referenced in the Material Safety Data Sheets. All containers should be tightly closed when not in use.

SHELF LIFE

The shelf life is 3 years.

DISPOSAL

Any disposal of the materials referenced in this document should be in accordance with all applicable federal, state, and local regulations. The process solution can contain components other than those present in the materials as supplied. Analysis of process solutions may be required prior to disposal.

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