

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.

APPROVAL & CONFORMANCES:

✓ ASME Boiler & Vessel Code Section V, Article 6

✓ NAVSEA
 ✓ SAE
 ✓ ASTM
 250-1500-1
 AMS 2644
 E-165

✓ Pratt & Whitney✓ BoeingPMC 4356BAC 5433

Ask your Chemetall representative for a complete list of approvals.

CHEMICAL CHARACTERISTICS

PROPERTY	TYPICAL VALUE	UNIT	TEST METHOD
Appearance	Deep red liquid	-	-
Density	187	g/l	-
Particle size	Submicron to 20 microns		-
Sulphur Content	<500	ppm	-
Chloride Content	<500	ppm	-
Fluoride Content	<50	ppm	-
Sodium Content	<100	ppm	-



APPLICATION PROCEDURE

After properly cleaning the component to be inspected, applying the penetrant, processing and drying the component, apply Ardrox 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 Ardrox 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.

NOTES ON USE (See Safety Data Sheet)

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 (4.4°C and 37.8°C) 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 for Ardrox 9D4A is 3 years.



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DISPOSAL

Any disposal of the materials referenced in this document should be in accordance with all applicable federal, state, providential 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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