

# ARDROX<sup>®</sup> 9PR50

## Solvent Remover

### 1. DESCRIPTION

ARDROX 9PR50 is a non-chlorinated, volatile solvent which is used for the removal of surface excess penetrant in the solvent removal process or wipe-off technique. Ardrox 9PR50 has a low sulfur and halogen content.

Ardrox 9PR50 is ideal for the removal of oil, grease and other organic contamination as a pre-cleaning of surfaces before the application of a penetrant or a magnetic ink.

Ardrox 9PR50 is typically used in a penetrant system together with the Ardrox penetrants and developers.

#### CONFORMANCES:

- ✓ EN ISO 3452-2 Method C, class 2
  - ✓ SAE QPL-AMS 2644 (Approval)
  - ✓ ASME Boiler & Vessel Code Section V, Article 6
- Ask your Chemetall representative for a complete list of approvals.

### 2. PHYSICAL AND CHEMICAL PROPERTIES

PROPERTY	UNIT	ARDROX 9PR50
Appearance	-	Clear, colorless liquid
Density	g/ml @ 20°C / 68°F	0.75
Flash Point	°C / °F	38 / 100

These are typical values only and do not constitute a specification.

### 3. METHOD OF USE

#### 3.1 As a Pre-Cleaning Solvent

Ardrox 9PR50 should be sprayed directly onto the contamination to be removed. The surface may then require wiping or flushing with the solvent cleaner depending upon the level of contamination to be removed. For best results, the surface should be given a final wipe over with a clean cloth or tissue dampened with Ardrox 9PR50.

### 3.2 For the Removal of Excess Penetrant

When Ardrox 9PR50 is used to remove excess penetrant at the end of the penetrant contact time, it is applied to the tested surface using the wipe-off technique. The bulk of the surface excess penetrant is wiped away by using clean, dry absorbent cloth or paper; then Ardrox 9PR50 is applied to a similar cloth or paper and the tested surface is wiped again until a satisfactory level of background is achieved.

Never apply solvent penetrant removers by direct spray on or immersion of the tested surface for the removal of the excess penetrant as this will lead to a loss in sensitivity of the process.

Surface temperature should be between -10° and 50°C (15°-120°F).

An Ardrox developer can then be applied to the dry surface. For Ardrox color contrast processes, inspection should be carried out in diffused white light of at least 500 lux (approx. 46 ft.cd) and in the case of Ardrox fluorescent penetrant processes under UVA of 365 nm peak wavelength, typical output of 1200  $\mu\text{watts/cm}^2$  at 38 cm from the component.

**NOTE:** The procedure above is a recommendation only; where relevant, the process specifications of the approving authorities must be followed.

## 4. EFFECTS ON MATERIALS

When Ardrox 9PR50 is used in the prescribed manner, no significant corrosion is likely to occur on commonly used constructional metals.

Ardrox 9PR50 may cause swelling of some rubbers and plastics. If Ardrox 9PR50 is to be used on synthetic surfaces, including painted surfaces, the product should be tested for compatibility before application.

## 5. LABOR AND ENVIRONMENTAL PROTECTION

Before operating the process described it is important that this complete document, together with any relevant Safety Data sheets, be read and understood.

All local and national regulations on the transport, storage, use and waste treatment of chemicals in concentrated or diluted form and as working solutions must be obeyed.

## 6. GENERAL INFORMATION

Chemetall supplies a wide range of chemical products and associated equipment for cleaning, descaling, paint and carbon removal, metal working and protection. Sales Executives are available to advice on specific problems and applications.

## 7. SAFETY AND HANDLING

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

## KEEP OUT OF REACH OF CHILDREN

### 8. 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 Safety Data Sheets. All containers should be tightly closed when not in use.

Store in a cool place, with protection from freezing conditions. Shelf life is 36 months.

### 9. 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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