

## Solvent removers

### 1 General Description

The solvent removers Ardrox<sup>®</sup> 9PR5, 9PR50 and 9PR88 are a series of non-chlorinated, volatile solvents which are used for the removal of surface excess penetrant in the solvent removal process or wipe-off technique. They have a low sulfur and halogen content.

The Ardrox<sup>®</sup> 9PR series of solvents remover are 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<sup>®</sup> 9PR5, 9PR50 and 9PR88 are available as bulk material and as aerosol. They are typically used in a penetrant system together with the Ardrox<sup>®</sup> penetrants and developers.

#### Conformances:

✓ EN ISO 3452-2	Method C, class 2
✓ SAE	QPL-2644
✓ 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	9PR5	Ardrox <sup>®</sup> 9PR50	9PR88
Appearance	-	Clear, colorless liquid		
Density	g/ml @ 20 °C / 68 °F	0.68	0.75	0.79
Flash point	°C / °F	-4 / 25	38 / 100	10 / 50

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

### 3 Method of use

#### 3.1 As a pre-cleaning solvent

Ardrox<sup>®</sup> 9PR5, 9PR50 or 9PR88 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<sup>®</sup> 9PR5, 9PR50 or 9PR88.

#### 3.2 For the removal of excess penetrant

When Ardrox<sup>®</sup> 9PR5, 9PR50 or 9PR88 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<sup>®</sup> 9PR5, 9PR50 or 9PR88 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 Ardrex® developer can then be applied to the dry surface.

For Ardrex® color contrast processes, inspection should be carried out in diffused white light of at least 500 lux (approx. 46 ft.cdl) and in the case of Ardrex® fluorescent penetrant processes under UVA of 365 nm peak wavelength, typical output of 1200 µwatts/cm<sup>2</sup> at 38 cm from the component.

#### Attention:

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

#### 4 Effects on materials

When Ardrex® 9PR5, 9PR50 or 9PR88 is used in the prescribed manner, no significant corrosion is likely to occur on commonly used constructional metals.

Ardrex® 9PR5, 9PR50 and 9PR88 may cause swelling of some rubbers and plastics. If Ardrex® 9PR5, 9PR50 or 9PR88 is to be used on synthetic surfaces, including painted surfaces, the product should be tested for compatibility before application.

#### 5 Storage

Store in a cool place, with protection from freezing conditions.

#### 6 Safety guidance

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

#### 7 Waste release

All waste waters must be treated in accordance with national legislation and local regulations prior to discharge to the sewer.

#### 8 General information

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

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**Head Office**  
Chemetall GmbH  
Trakehner Straße 3  
60487 Frankfurt am Main  
Germany

T +49 69 7165 0  
F +49 69 7165 3018  
[surfacetreatment@chemetall.com](mailto:surfacetreatment@chemetall.com)  
[www.chemetall.com](http://www.chemetall.com)

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