

JAC-3 CLEANER

Version 12012021

Penetrant Remover/ NDT Solvent Cleaner

JAC-3 Cleaner is a solvent based cleaner that can be used for pre-cleaning components before testing, removing excess surface penetrant from an inspection area before applying developer and post-cleaning component after NDT processes have been completed. JAC-3 Cleaner removes oils, mastics, greases and other contaminants leaving minimal residue when it evaporates. Compatible with the NEOPEN family of liquid penetrant consumable products.



Key Features

Testing Method(s)	A and C
Carrier Fluid	Acetone
Propellant	Dimethyl Ether
Flamability	Extremely Flammable

1 Benefits

1.1 Surface preparation

- Suitable as a general purpose pre-cleaner to prepare a surface before inspection by removing surface contaminants like grease and machine fluids.
- Removes oils, mastics, greases and other contaminants leaving minimal residue when it evaporates.
- Use as a post-cleaner to remove residual penetrant and developer after inspections have been completed.

1.2 Remove excess penetrant

- Capable of removing excess liquid penetrant which is required when using solvent removable penetrants (testing method C).
- Suitable for removing excess JAP Penetrant, JAP W/W Penetrant and Neon W/W-A Penetrant as part of an inspection process.

1.3 Application versatility

- Use a single cleaner throughout the entire penetrant testing process.
- Fast drying solvent product to minimise cleaning and inspection processes to maximise throughput.
- Comes in both aerosol and bulk forms for convenience.

1.4 Minimise risk of missing a flaw

- Inspect reliably by cleaning only the surface without flushing penetrant out of discontinuities.
- Dries quickly without leaving residue to prevent false indications.

1.5 Convenient to use

- Easy to carry and use in the field with the convenient aerosol cans.
- Inspection components in situ with ease.

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2 Method of use

2.1 Introduction

The information presented in this section is intended as a manufacturer's guide and best practice recommendations for a typical inspection process. It is strongly recommended any NDT procedure be first approved for use by an organisations qualified level 3 NDT operator or by someone in a senior position (e.g. quality manager) prior to any work being undertaken. JAC-3 Cleaner is available in both 400mL aerosols and in 5L bulk containers.

2.2 As a pre-cleaning solvent

When used as a pre-cleaner JAC-3 Cleaner should be sprayed directly to the component surface to remove contaminations. The surface may then require wiping or flushing depending upon the level of contamination being removed. For best results, the surface should be given a final wipe over with a clean lint free clean dampened with JAC-3 Cleaner.

2.3 For the removal of excess penetrant

JAC-3 Cleaner is designed to remove excess solvent removable penetrant (testing method C) and is compatible if JAP Penetrant. After the penetrant is applied application and given a minimum of 15 minutes contact with the test surface, JAC-3 Cleaner should be applied to the tested surface using the wipe-off technique. This is undertaken by spraying JAC-3 Cleaner to a dry clean lint free cloth or tissue and wiping the excess surface penetrant. Wipe in a single direction, aiming to use a different part of the cloth or a new cloth for each successive wipe. Repeat this process until a satisfactory level of background penetrant is achieved. JAC-3 should not be applied directly to the component by either spray or immersion when used for removing excess penetrant. This could flush indications out of any surface breaking discontinuities and reduce the sensitivity of the process. The component temperature should be between 10 and 50°C.

2.4 As a post-cleaning solvent

After inspection processes JAC-3 Cleaner can be applied directly to a component for removing any residual penetrant or developer.

2.7 Effects on material

JAC-3 Cleaner is unlikely to cause corrosion in common constructional metals (e.g. most steels).

2.8 Storage

Store in a cool place, protect from freezing conditions. The shelf life for aerosols and bulk are 18 months and 36 months from date of manufacture respectively. The date of manufacture will be displayed on the container along with the batch serial number.

2.9 Safety and Environment

Before undertaking the process described it is important that this complete document, together with any relevant Safety Data Sheets (SDS), 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.

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3 Product Data

General Information	
Appearance	Clear liquid
Family Classification	NEOPEN
White Light	> 500 lux - Required at component surface
Carrier Fluid	Acetone
Propellant (Aerosol)	Dimethyl Ether
Testing Methods	A and C
Sensitivity	Level 2 - Medium System
Temperature Range	5 to 50°C
Shelf Life (Aerosol)	18 months
Shelf Life (Bulk)	36 months
Halogen Classification	Designation 'Low'
Sulphur Classification	Designation 'Low'
Heavy Metal Classification	Designation 'Low'
Standard Compliance	
Penetrant Standards	ISO 3452 ISO 571 ASTM E1417 ASTM E165
Additional Standards	Contact Johnson & Allen Ltd for confirmation of compliance for additional standards not listed above

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