



CLEANING

# M-AERO

REMOVING OILS ON METALS  
SPRAY, FLUSH & IMMERSED JETS PROCESSES  
SUITABLE FOR PENETRANT TESTING OPERATIONS

## BENEFITS

M-AERO is especially designed for removal of all types of oils. Thanks to its excellent antifoam properties it is dedicated for aqueous spray, flush or immersed jets processes. It's low alkalinity makes it compatible with most metals used in aeronautic industry. It is a concentrated product which is used diluted with tap or DI water. M-AERO is particularly suitable for penetrant testing operations.

M-AERO is qualified and used by several actors in the aerospace industry. SAFRAN IN 1500B / SNECMA DMP 13300 / SNECMA DMR 70213) qualified on :

- Alloyed or low alloyed steels
- High strength steels (Rm >1500 mPa)
- Titanium aluminide
- Aluminum base alloys
- Magnesium base alloys
- Stainless steels
- Nickel or Cobalt base
- Titanium base alloys
- Copper base alloys

PERFORMANCE	<ul style="list-style-type: none"> <li>▪ Cleans efficient many metals, including very sensitive ones</li> <li>▪ Excellent surfaces properties for penetrant testing operation</li> <li>▪ Low foaming</li> </ul>
COST	<ul style="list-style-type: none"> <li>▪ High cleaning power even at low concentration</li> <li>▪ Long bath-life</li> <li>▪ Can be used in production &amp; maintenance</li> </ul>
HSE	<ul style="list-style-type: none"> <li>▪ Non-toxic &amp; no CMR substances</li> <li>▪ Low environmental impact:</li> <li>▪ Non-flammable</li> </ul>

## SPECIFICATIONS

SPECIFICATIONS	VALUES
Aspect	Pale Yellow
Density at 20°C (g/ml)	1,05 ± 0,02
pH of pure product	11,75 ± 0,25

## CHARACTERISTICS

CHARACTERISTICS	VALUES
pH at 1%	10,8
Solubility in water	totally soluble
Refractive index 20°C	1,38
Surface tension at 1% (dynes/cm)	27

## PROCESS RECOMMENDATION

The best process will depend on factors such as operating conditions, equipment, desired cleaning time and the nature of contaminants. Our team is ready to advise you.

### PROCESS EXAMPLES

Cleaning by spray following IN 1500 B / Safran

M-AERO	DI or TAP WATER	HOT AIR
Conc: 5-10 % in DI/tap water Temp: 50-60 °C/122-140 °F US: no Time: 1-15 min	Temp: 20-30 °C/68-86 °F US: no Time: 2-5 min	Time: 5-20 min
CLEANING	RINSING	DRYING

Cleaning by immersion following IN 1500 B / Safran

M-AERO	DI or TAP WATER	HOT AIR or VACUUM
Conc: 5-20% in DI/tap water Temp: 50-60 °C/122-140 °F US: Optional Time: 1-15 min	Temp: 20-30 °C/68-86 °F US: no Time: 2-5 min	Time: 5-20 min
CLEANING	RINSING	DRYING

- A dedicated PCA Kit to monitor the bath status and compatibility report with different materials are available on request.

## PACKAGING, STORAGE & SHELF LIFE

- Keep products in closed original packaging and store at room temperature.
- Shelf life is minimum 18 months from production date when kept in recommended conditions.

### AVAILABLE PACKAGING



26 Kg CANISTER



208 Kg DRUM

## HEALTH, SAFETY & ENVIRONMENT

M-AERO is a **GREENWAY** product.

More info on our Greenway concept via this [link](#)



### MAIN CONTRIBUTORS WHICH REDUCE IMPACT:

#### HUMAN HEALTH & SAFETY

- Non-flammable & no flashpoint -> eliminating the need for explosion proof equipment or special storage & transport
- Non-toxic & no corrosive impact -> No S risk labelling

#### ENVIRONMENT PROTECTION & RESOURCES SAVINGS

- Low environmental impact: no H labelling regarding environment
- No GWP
- No VOC
- Does not contain phosphorus compounds

Contains no Reach Substances (on Candidate list, Annex XIV & XVII) / Contains no persistent organic pollutant (EC 850/2004) / Contains no Import/Export Hazardous substances (EU 649/ 2012)

It is biodegradable according to regulation 648/2004 but must be neutralized and filtered before disposal in sewer system in accordance with local regulations. Neutralization and titration methods are available upon request.

Please refer always to the Safety Data Sheet (SDS or MSDS) prior to use. Our SDS can be downloaded at [www.quickfds.com](http://www.quickfds.com). We will request to provide your email address, so we can automatically send you a new version of the SDS when a future update would occur.

## TECHNICAL SUPPORT & FREE-OF-CHARGE TESTING

Inventec has a worldwide dedicated Technical Support team to help you along the different stages of our cooperation.

Depending on your request, we provide online or onsite support

- to select the right product based on your specific needs
- to assist you in your product qualification process
- to guide you with the initial set up of you process at all your worldwide manufacturing facilities
- to provide fast response on technical issues which could occur at any time during mass production.

Customers are also welcome in our CLEANING CENTERS to see the process in action and to get convinced by our solutions. We cover water- and solvent based processes.

Inventec is unique in the world by developing not only cleaning materials but also soldering and coating solutions. These materials are very closely linked with each other from a process point of view. Talking to our Technical Team, who understands very well these 3 different product groups, will help you greatly to overcome technical challenges within your overall process.

Contact our technical support via [contact@inventec.dehon.com](mailto:contact@inventec.dehon.com) or your local sales representative.

## ABOUT INVENTEC

Inventec is a global provider of SOLDERING, CLEANING & COATING materials for Electronic, Semiconductor and Industrial applications. For over 60 years we have shown leadership in innovation by putting HEALTH IMPACT, SUSTAINABILITY and RELIABILITY at the core of our product development.

With ISO 9001 & 14001 production sites in France, Switzerland, USA, Mexico, Malaysia and China we can guarantee a smooth and cost-effective supply chain.

We supply to many industries but the excellent performance of our products in applications which demand high reliability, leads us to focus especially on the AUTOMOTIVE, AEROSPACE, SEMICONDUCTOR, ENERGY and MEDICAL industry.

[www.inventec.dehon.com](http://www.inventec.dehon.com)



S O L D E R I N G • C L E A N I N G • C O A T I N G

In accordance with the Annex II of Directive 2011/65/UE (RoHS), including its amendments, we certify that this product does not contains quantities above 0.1% of Hg, Pb, Cr VI, PBB, PBDE, DEHP, BBP, DBP, DIBP and above 0.01% of Cd

This data is based on information that the manufacturer believes to be reliable and offered in good faith. In no event will INVENTEC PERFORMANCE CHEMICALS be responsible for special, incidental and consequential damages. The user is responsible to the Administrative Authorities (regulations for the protection of the Environment) for the conformity of his installation.

Inventec Performance Chemicals – 26 rue de Coulons. 94360 Bry-sur-Marne, France  
Limited company with capital of 600 000€ - 964 500 706 RCS Créteil