



CLEANING

PROMOCLEAN™ TP 1113

OIL REMOVAL & DEGREASING
AQUEOUS IMMERSION PROCESS WITH ULTRASONICS
EXCELLENT FOR CLEANING OF TITANIUM & ALUMINIUM

BENEFITS

PROMOCLEAN TP 1113 is especially designed for removal of hydrocarbon- or water-based oils and greases in an aqueous immersion process. Despite having a high pH to allow efficient cleaning, it doesn't damage sensitive metals or alloys, like Titanium, Aluminium, Copper or Brass. It's a concentrated product which is used diluted with DI water.

PERFORMANCE	<ul style="list-style-type: none"> ▪ Cleans efficient ALL metals, including very sensitive ones. ▪ The low surface tension improves cleaning of parts with complex geometry ▪ Short rinsing time needed, despite being a high pH product.
COST	<ul style="list-style-type: none"> ▪ High cleaning power even at low concentration ▪ Can be re-used after filtration (1 to 3 times depending on the application) ▪ Long bath-life
HSE	<ul style="list-style-type: none"> ▪ Non-toxic & no CMR substances ▪ Low environmental impact ▪ Non flammable

SPECIFICATIONS

SPECIFICATIONS	VALUES	METHODS
Aspect	Yellow	Visual
Density at 20°C (g/ml)	1,07 +/- 0,01	BRY-MO-028
pH of pure product	12,0 +/- 0,5	BRY-MO-011
pH at 1%	10,5 +/- 0,5	BRY-MO-011

CHARACTERISTIC

CHARACTERISTICS	VALUES
Surface tension at 1%	34 Dynes /cm ²
Solubility in water	totally soluble

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 EXAMPLE

<p>PROMOCLEAN TP 1113</p> <p>Conc: 1 - 5 % in DI water Temp: 55-60 °C /130-140 °F US: yes Time: 5-10 min</p>	<p>DI or TAP WATER</p> <p>Temp: 20-30 °C / 68-86 °F US: optional Time: 2-5 min</p>	<p>HOT AIR or VACUUM or DRYING SOLVENT</p> <p>Time: 5-20 min</p>
CLEANING	RINSING	DRYING

Increasing the bath-life of your process can be achieved by adding an oil separator within the cleaning equipment and to add periodically concentrated product. A PCA Kit is available to monitor the bath status by colorimetric titration.

Compatibility report of the cleaner with different materials is 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



20 Kg CANISTER



210 Kg DRUM

HEALTH, SAFETY & ENVIRONMENT

PROMOCLEAN TP 1113 is a **GREENWAY** product.

- Reduced toxicity
- Reduced ecotoxicity (aquatic toxicity)
- Reduced chemical oxygen demand (COD)

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

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.

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 your 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 understand 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 or your local sales representative.

ABOUT INVENTEC

Inventec is a global provider of CLEANING, SOLDERING & COATING materials for Electronic, Semiconductor and Industrial applications. For over 40 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



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 contain 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.

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