



Description

SAMSOL DE-WAX Precision Cleaner is a special blend of aliphatic esters and surface-active agents formulated to offer an effective alternative to ozone-depleting chlorofluorocarbons, chlorinated hydrocarbons, caustic cleaners, and undesirable petroleum-derived solvents in precision cleaning applications. Its high flash point, combined with low odour, toxicity, and vapour pressure, allow it to be used safely in demanding applications where maximum operator safety and minimal environmental impact are important.

SAMSOL DE-WAX is readily biodegradable. It is not a hazardous waste is not corrosive, and does not contain any carcinogens. None of the components in **SAMSOL DE-WAX** appear on any of the EPA's lists of toxic or hazardous substances. **SAMSOL DE-WAX** does not contribute to the depletion of stratospheric ozone. It is approved for use by leading manufacturers across a wide range of industries including aerospace, automotive, jet engine, optics, and silicon wafer. Information on specific industry approvals is available from Banner Chemicals

Typical Properties

Table 1. SAMSOL DE-WAX

appearance	Transparent, light-coloured liquid
Specific Gravity	0.86 ± 0.01
pH(5% in water)	5.6
Odour	Mild citrus
Flash point	149° C

Applications

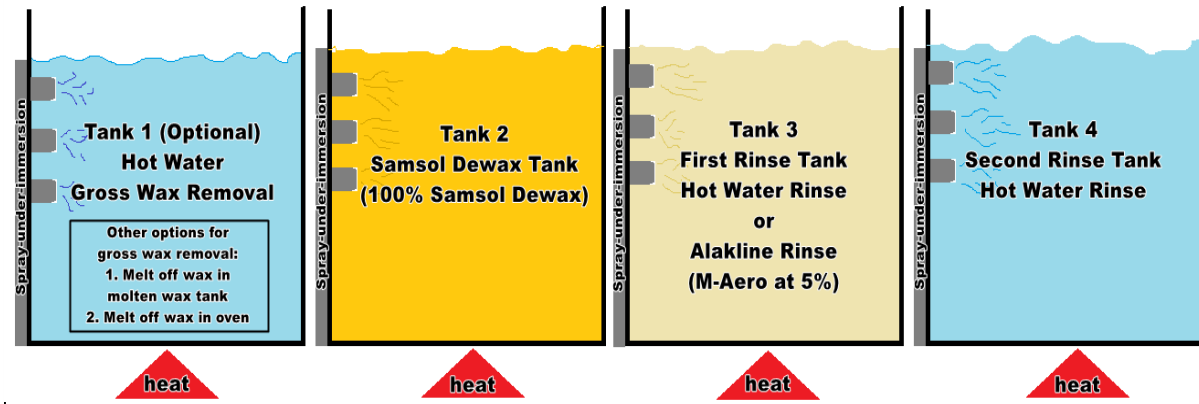
SAMSOL DE-WAX is specifically designed for removing high-melting-point soils such as waxes, pitches, greases, fixturing compounds and buffing compounds. Its high flash point and low odour make it ideal for use in applications where elevated temperatures aid in soil removal. **SAMSOL DE-WAX** is particularly effective for removing masking waxes used in metal plating operations and waxes, pitches and thermoplastics used as fixturing agents in the optics, wafer, and jet engine industries. **SAMSOL DE-WAX** is also effective for removing most common metalworking soils including oils, greases, lubricants, coolants, and dye penetrants.

Process

SAMSOL DE-WAX is designed for use in semi-aqueous cleaning processes. While individual process configurations may vary based upon the particular cleaning needs in a given application, most processes operate more or less as depicted in Figure 1 below. .



Figure 1: Typical Semi-Aqueous Wax Removal Process



Typical Semi-Aqueous Process Steps

Steps	Process Details
1. Wash the parts in a bath of Samsol De wax	The samsol De wax bath should be heated to 60°C to 93°C, depending upon the particular soil to be removed. Use mechanical or ultrasonic agitation in the wash bath to speed the cleaning process.
2. Rinse the residual samsol De wax and dissolved soil from the parts.	Samsol de wax rinses easily with water and 5% solution of M aero rinse agent Heated, agitated water is the most commonly used rinse agent. Most systems incorporate two or three successive rinses as shown in Figure 1.
3. Dry the parts as necessary. (Optional)	If drying assistance is required to remove the residual rinse water from the parts, use any appropriate method: ambient air, oven, forced air, centrifugal force, hand wipe, or any other that is appropriate

Compatibility

Samsol De Wax is compatible with virtually all metals including aluminum, magnesium, carbon steels, stainless steels, nickel-containing alloys, cobalt-containing alloys, and titanium alloys. The product is incompatible with rubbers but may be compatible with many types of plastics and elastomers encountered in precision applications.

ENVIRONMENTAL/REGULATORY

Ozone Depletion Potential (ODP)	Zero
Global Warming Potential (GWP)	Essentially zero

APPROVALS & TESTING

BOEING D6-17487
 Exterior and General Cleaners, Liquid Waxes, Polishes and Polishing Compounds

Sandwich Corrosion Hydrogen Embrittlement Test
 Acrylic Crazing Test Paint Softening Test

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Page 2 of 3

Safety and Toxicity	Please see Material Safety Data Sheet for detailed information.
Disposal	Banner Chemicals recommends contacting your current or local environmental service company for disposal of this product. The suggested method of disposal is fuel blending.
Packaging	Samsol DE Wax is available in 16 kg pails and 182 kg drums. Samples are available on request.
Storage	Samsol DE Wax should be stored in the original container, preferably in a cool, ventilated, fire-resistant building. Storage temperature should not be below 10°C.
Shelf Life	The shelf life for this product is indefinite when it is stored in its original, sealed container at room temperature. However, the product should be inspected after the designated date on the product label (twenty-four months from the date of manufacture) prior to customer use.

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Page 3 of 3

