

# SAMSOL T1

## Technical Data Sheet



**Banner Chemicals Group UK**  
Flying the flag of excellence for over 150 years

**Samsol T1** is an approved MIL-PRF-680C Type I solvent cleaner designed for hand-wiping and immersion applications. It is also suitable for use in airless vacuum hydrocarbon equipment. **Samsol T1** is selected when a low odour solvent with fast drying characteristics is required.

**Samsol T1** is a high performance solvent cleaner, offering broad-based solvency and low toxicity. **Samsol T1** is formulated to effectively remove a wide range of soils such as grease, mineral oil, lubricants, coolants, synthetics, and particulate matter.

**Samsol T1** is safe for use with ferrous and nonferrous alloys such as aluminum, copper and copper alloys, magnesium, nickel, steel, stainless steel, titanium and zinc. It is also compatible with many polymeric substrates and elastomers. **Samsol T1** is a direct replacement for Acetone, IPA, MEK, Toluene and other low-flash point, flammable materials. It may also be an effective alternative to halogenated solvents and caustic cleaners. **Samsol T1** is a high-purity solvent, designed to leave substrates with very low surface residue and low non-volatile residue (NVR).

### FEATURES & BENEFITS

- MIL-PRF-680C Type I Solvent
- Low Odour
- Fast Dry Time
- Low Surface Residue/NVR
- P-D-680 Replacement
- Low Toxicity
- Corrosion Inhibition
- Non-Corrosive
- Good Solvency
- Low Vapour Pressure

### SOILS REMOVED

- Mineral Oils
- Synthetic Oils
- Rust Inhibitors
- Lubricating Oils
- Particulate Matter
- Water-Soluble Oils
- Coolants
- Grease
- Fingerprint Oil
- Dust

### APPROVALS & TESTING

#### Approvals

MIL-PRF-680C Type I Degreasing Solvent (QPL DS0025)  
NCAGE: KH892  
Rolls Royce CSS 267 (BS 245)

#### Testing

ASTM F-1110 ASTM F-483, ASTM F-945, ASTM D-130  
ASTM D-1296, ASTM D-1353, ASTM D3257, ASTM D1353

### ENVIRONMENTAL/REGULATORY

Ozone Depletion Potential (ODP): .....Zero  
Global Warming Potential (GWP): .....Low

### PROCESS

1. For hand-wiping applications, apply **Samsol T1** undiluted to the desired substrate by brush, pad or cloth.
2. For immersion applications, add **Samsol T1** undiluted to the wash tank reservoir.
3. For airless vacuum equipment, add **Samsol T1** undiluted to the wash chamber.

### PROPERTIES

Appearance.....	Clear liquid
Odour (ASTM D1296).....	Odourless
Flash Point (ASTM D56).....	59.5°C
Specific Gravity (15°C) (ASTM D1298).....	0.762
Distillation Range (ASTM D86).....	187-193°C
Vapour Pressure (20°C)(ASTM D2879).....	<1.0mm Hg
Kauri-Butanol (KB) Value ((ASTM D1139).....	28
Non-volatile Residue (100mL)(ASTM D1353).....	4mg
Colour (ASTM D156).....	>25
Aromatic content (ASTM D3257).....	<1%v/v
EPA (EPA 6280B).....	Non detected
Total Chlorine.....	<10 ppm
Copper corrosion (ASTM D130).....	Pass
Sandwich Corrosion (ASTM F1110).....	Pass
Total Immersion Corrosion ((ASTM F483).....	Pass
Titanium Stress Corrosion (ASTM F945).....	Pass
Acidity ((ASTM D847).....	Neutral
Doctor Test (ASTM D235).....	Negative
Soil cleaning test (FTM 791.7502).....	91%

### 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 twenty-four months from the date of manufacture prior to customer use.

### DISPOSAL/SAFETY

**Disposal:** Banner chemicals recommends contacting your current or local environmental service company for disposal of this product.

**Safety:** Please see Material Safety Data Sheet for further information.

**Storage:** **Samsol T1** should be stored in the original container, preferably above 50°F (10°C), in a ventilated, fire resistant building.

**Packaging:** **Samsol T1** is available in 15 kg pails and 160 kg drums.

Samsol is a trademark of Samuel Banner

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