

TOMADYNE



TOMADYNE™

100 and 102

SURFACTANTS

FOR

INDUSTRIAL

CLEANING

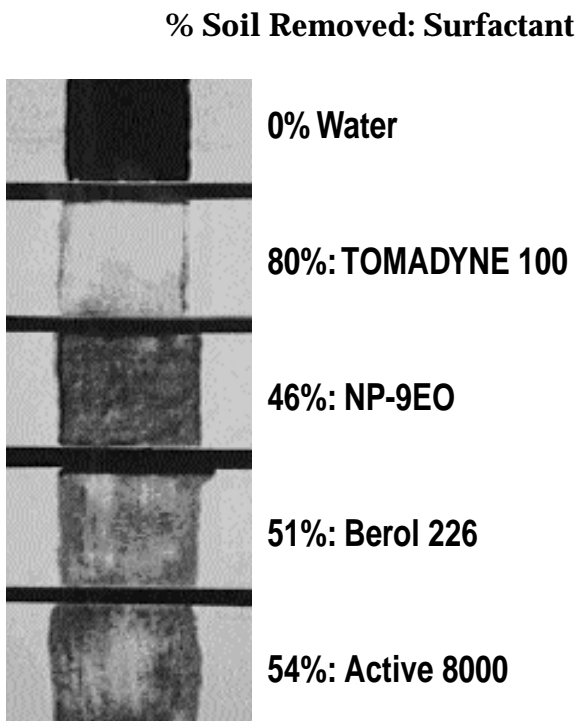
APPLICATIONS

TOMADYNE™ 100 and 102 SURFACTANTS FOR INDUSTRIAL CLEANING APPLICATIONS

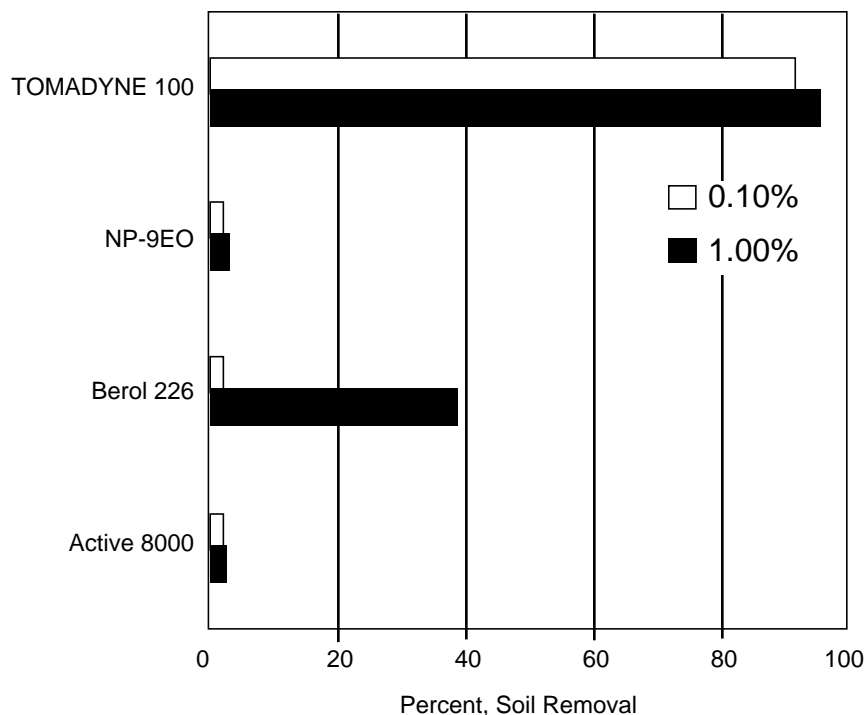
TOMADYNE 100 and 102 are designed to be affordable and efficient surfactants for use in water based degreasing and hard surface cleaning applications. Both products are moderate foaming surfactants designed for water based degreasing.

TOMADYNE 100 and 102 are very efficient in the removal of organic soils such as oil and grease when subjected to an Immersion Cleaning Test and the Gardner Hard Scrub Test. TOMADYNE 100 and 102 have comparable performance profiles, however, TOMADYNE 102 is a milder alternative. They are fast wetters for penetrating soils and surfaces. TOMADYNE surfactants are powerful emulsifiers, which can help hold soils in suspension.

Gardner Hard Scrub Performance - % Removal
 conditions: oily/particulate soil, 0ppm hardness,
 10% "as-is" product basis, 20 cycles



Immersion Cleaning vs. Concentration
 conditions: motor oil/lithium grease, 0ppm hardness
 product basis, 15 min., 22C°

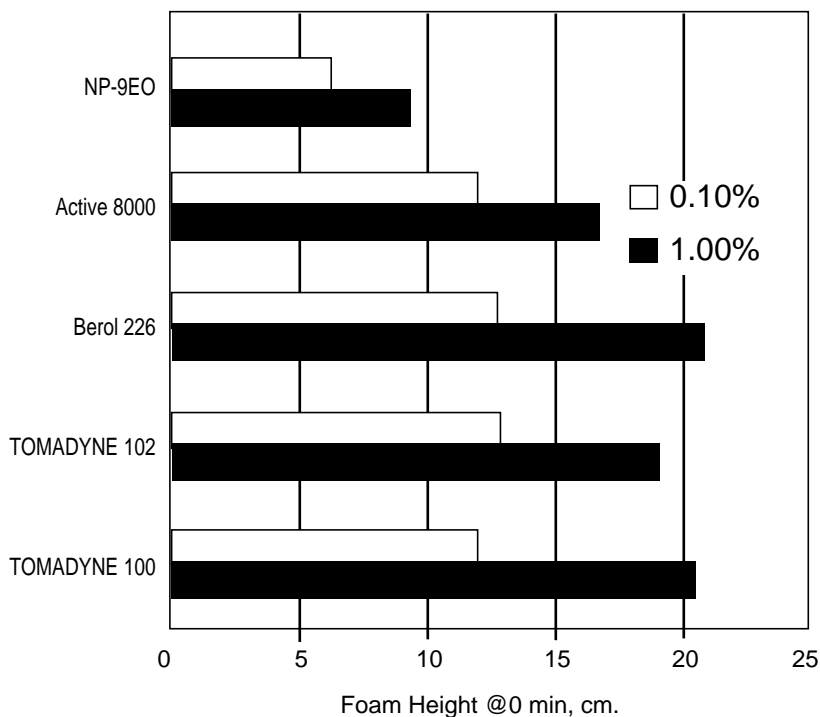


TOMADYNE Surfactants are effective in both alkaline and acid cleaning formulations. They are excellent penetrants and wetting agents, and are especially good for removing greasy soils from hard surfaces. General-purpose cleaners can be successfully formulated with TOMADYNE surfactants. TOMADYNE product selection may depend on the other formulation components and the performance requirements of the particular cleaning application. For example, TOMADYNE 100 may not be compatible with anionic detergent ingredients, whereas TOMADYNE 102 offers greater formulating latitude and formulation stability when compounded with anionic detergent ingredients.

TOMADYNE surfactants are designed for use in hard surface and industrial cleaning formulations including transportation cleaners for cars, trucks, buses, aircraft, as well as metal cleaning detergents for soak tanks and high-pressure spray systems.

<i>Typical Properties</i>	<i>TOMADYNE 100</i>	<i>TOMADYNE 102</i>
Spec. Gravity @ 40°C	0.988	1.0027
Water solubility, 1.0% @ 23°C	Soluble	Soluble
Flash Point, °F	>201	>201
Viscosity @ 23°C, cps	115	120
Pour Point, °F	25	21
Active, %	83	83
Gardner Color	3	3
Physical Appearance	Clear Liquid	Clear Liquid
pH, 5% in water @ 25°C	5.5	6
Surface tension 0.1%, 23°C, dynes	27	28
Cloud point, °C, 1.0% solution	65	60
NaOH solubility, %	3.9	4.5

Ross Miles Foam Data



The information and data contained herein are believed to be correct. However, we do not warrant either expressly or by implication the accuracy thereof. In presenting uses for this product, no attempt has been made to investigate or discuss any patent situation which may be involved.

01/23/01

TOMADYNE 100

Formulation

Suggestions

1 Alkaline Rust Remover	wt%
Water	85
Sodium Metasilicate pentahydrate	3
Tetrapotassium Pyrophosphate	4
Amphoteric LH	3
TOMADYNE 100	5

pH: 14
Density: 1.050 g/ml
Dilution: 10-30 : 1

2 Parts Degreaser Concentrate	wt%
TOMADYNE 100	100

pH: 6
Density: 0.995 g/ml
Dilution: 100-1000 : 1

3 Neutral Parts Degreaser	wt%
Water	90
TOMADYNE 100	10

pH: 6
Density: 0.996 g/ml
Dilution: 20-40 : 1

4 Solvent Degreaser	wt%
Water	85
Ethylene glycol monobutyl ether	10
TOMADYNE 100	5

pH: 5
Density: 0.993 g/ml
Dilution: 10-50 : 1

5 Acid Cleaner	wt%
Phosphoric Acid	20
Water	70
TOMADYNE 100	10

pH: 1.3
 Density: 1.10 g/ml
 Dilution: 20-40 : 1

6 Heavy Duty Parts Degreaser	wt%
Water	69
Ethylene glycol monobutyl ether	10
Sodium Metasilicate pentahydrate	3
Tetrapotassium Pyrophosphate	4
Amphoteric LH	9
TOMADYNE 100	5

pH: 13
 Density: 1.043 g/ml
 Dilution: 10-30 : 1

7 Touchless Traffic Film Remover	wt%
Water	83
EDTA NA ₄ , (40%)	10
Burcosperse LP (50%)	1
TOMADYNE 100	6

pH: 10
 Density: 1.024 g/ml
 Dilution: 20-80 : 1
 Notes: Burcosperse LP, Burlington Chemical Co., Inc.

8 Ink Remover	wt%
TOMADYNE 100	10
d-limonene	5
Alkali Surfactant	5
Water	80

pH: 5-6
 Density: 1.991 g/ml
 Dilution: 10-40 : 1
 Notes: Add in order listed

9 Laundry	wt%
Water	71
Triethanolamine	4
Tomadol 1-73-B	19
TOMADYNE 100	6

pH: 9
 Density: 1.002 g/ml
 Dilution: 20-40 : 1

TOMADYNE 102

Formulation

Suggestions

1 Alkaline Rust Remover	wt%
Water	88
Sodium Metasilicate pentahydrate	3
Tetrapotassium Pyrophosphate	4
TOMADYNE 102	5

pH: 14
Density: 1.044 g/ml
Dilution: 10-30 : 1

2 Parts Degreaser Concentrate	wt%
TOMADYNE 102	100

pH: 6
Density: 1.003 g/ml
Dilution: 100-1000 : 1

3 Neutral Parts Degreaser	wt%
Water	90
TOMADYNE 102	10

pH: 5
Density: 0.996 g/ml
Dilution: 20-40 : 1

4 Solvent Degreaser	wt%
Water	85
Ethylene glycol monobutyl ether	10
TOMADYNE 102	5

pH: 5
Density: 0.989 g/ml
Dilution: 10-50 : 1

5 Acid Cleaner	wt%
Water	70
Phosphoric acid	20
TOMADYNE 102	10

pH: 1.3
Density: 1.10 g/ml
Dilution: 20-40 : 1

6 Heavy Duty Parts Degreaser	wt%
Water	69
Ethylene glycol monobutyl ether	10
Sodium Metasilicate pentahydrate	3
Tetrapotassium Pyrophosphate	4
Amphoteric LH	9
TOMADYNE 102	5

pH: 14
Density: 1.045 g/ml
Dilution: 10-30 : 1

7 Touchless Traffic Film Remover	wt%
Water	83
EDTA NA ₄ , (40%)	10
Burcosperse LP (50%)	1
TOMADYNE 102	6

pH: 10
Density: 1.025 g/ml
Dilution: 20-80 : 1
Notes: Burcosperse LP, Burlington Chemical Co., Inc.

8 Ink Remover	wt%
TOMADYNE 102	10
d-limonene	5
E-14-2	13
Water	71

pH: 9.5

Density: 0.989 g/ml

Dilution: 10-40 : 1

Notes: Add in order listed. The formulation is not 50C stable, however with mixing the formulation recovers to a one phase stable formulation that is a translucent gel

9 Laundry	wt%
Water	71
Triethanolamine	4
Tomadol 1-73-B	19
TOMADYNE 102	6

pH: 9

Density: 0.999 g/ml

Dilution: 20-40 : 1

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