



SCREEN PRINTING

CLEANING SOLVENTS

➤ RANGE OF CLEANING SOLVENTS

For many years, TIFLEX has marketed a whole range of cleaning solvents, with varying degrees of volatility and labelling.

However, for reasons of toxicity, user safety, regulations or environmental concerns, many of our customers are asking us for «cleaner» solvents.

In response to these concerns, TIFLEX has completely revised its range of cleaning solvents. Each solvent has its own physico-chemical characteristics and field of effectiveness. A choice must be made according to the priorities sought.

The technical manual for each of our inks suggests the solvent references best suited to the range concerned.



➤ HOW TO CHOOSE YOUR CLEANING SOLVENT ?



- With or without aromatic compounds ? What is the desired flash point ?
- Manual use or in an automatic screen cleaning unit ?
- Distillation : yes/no, at atmospheric pressure, under vacuum ?
- What ranges of inks are used ? Please note, there is no such thing as a universal solvent.
- Low VOC content ? Be careful, this requirement calls for a very greasy product.
- Odor level.

Abandoning a solvent that is highly effective, dry, often has a very low flash point, contains aromatic hydrocarbons, and has restrictive labelling is a genuine environmental initiative. Our laboratories remain at your disposal for any advice or further information on this subject.

CLEANING SOLVENT NS-85

NS-85 is an unlabelled, multi-purpose cleaning solvent.

Formulated without aromatic hydrocarbons.

NS-85 is a greasy, low-volatility solvent. After use, dry your equipment or rinse it with a volatile solvent (e.g. NS-55).

This solvent is effective on UV inks and some of our SOLVANT inks.

For manual use or in automatic screen cleaning unit (check the minimum flash point required for your washer).

Technical specifications :

- Flash point : 64°C
- Distillation interval : 160 - 190°C
- VOC : 866,68 g/liter
- Odour : low

Efficiency range : *UV inks, Solvent inks*

Labeling : *No labeling*

CLEANING SOLVENT 4895

4895 is a multi-purpose cleaning solvent.

Formulated without aromatic hydrocarbons.

Solvent 4895 is a dry solvent with a low flash point. It dries quickly.

This solvent is effective on UV inks and some of our SOLVENT inks.

Suitable for automatic screen cleaning unit.

Technical specifications :

- Flash point : -6°C
- Distillation interval : 80 - 150°C
- VOC : 800,72 g/liter
- Odour : medium

Efficiency range : *UV inks, Solvent inks*

Labeling :



CLEANING SOLVENT NS-95

NS-95 is a cleaning solvent formulated without aromatic hydrocarbons.

Good compromise between volatility and flash point above 23°C.

This solvent is effective on UV inks and some of our SOLVENT inks.

For manual use or in automatic screen cleaning unit (check the minimum flash point required for your washer).

Technical specifications :

- Flash point : 35°C
- Distillation interval : 120 - 170°C
- VOC : 857,55 g/liter
- Odour : medium

Efficiency range : *UV inks, Solvent inks*

Labeling :



CLEANING SOLVENT 2895

2895 is a versatile cleaning solvent.

Formulated without aromatic hydrocarbons.

Solvent 2895 is a dry solvent with a low flash point. It dries quickly.

This solvent is effective on UV inks, plastisol inks and most SOLVENT inks.

Suitable for automatic screen cleaning unit.

Technical specifications :

- Flash point : -6°C
- Distillation interval : 70 - 120°C
- VOC : 805,69 g/liter
- Odour : medium

Efficiency range : *UV inks, Solvent inks, Plastisol inks*

Labeling :



▶ RANGE OF CLEANING SOLVENTS

CLEANING SOLVENT NS-55

NS-55 is a versatile cleaning solvent.
Formulated without aromatic hydrocarbons.

NS-55 is a dry, highly volatile solvent.
It evaporates rapidly without residue.

This solvent is effective both as a cleaning solvent and as a rinsing solvent for removing greasy solvent residues.

Suitable for automatic screen cleaning unit.

Technical specifications :

- Flash point : -4°C
- Distillation interval : 70 - 80°C
- VOC : 903,00 g/liter
- Odour : strong

Efficiency range: *UVinks, Solvent inks, Plastisol inks*

Labeling :



PLASTISOL SOLVENT

This solvent has been developed for cleaning PLASTISOL inks. It is GOTS V7 approved.
Formulated without aromatic hydrocarbons.

Plastisol Solvent is a low-volatility, fatty solvent.
After use, dry your equipment or rinse with a volatile solvent (e.g. NS-55).

This solvent is highly effective on DREAMFLASH inks. It is also suitable for HIMALAYA, CREA and FLASHCOLOR inks.

For manual use or in automatic screen cleaning unit (check the minimum flash point required for your washer).

Technical specifications :

- Flash point : 78°C
- Distillation interval : > 200°C
- VOC : 689,54 g/liter
- Odour : low

Efficiency range : *Plastisol inks*

Labeling :



 GOTS approved



CLEANING SOLVENT NS-99

NS-99 is an effective but less general-purpose cleaning solvent than NS-81 and NS-85.

Formulated without aromatic hydrocarbons.

NS-99 is a greasy, low-volatility solvent. After use, dry your equipment or rinse with a volatile solvent (e.g. NS-55).

This solvent is ideal for EPOXY EV and CELLULOSIC STJ inks.

For manual use or in automatic screen cleaning unit (check the minimum flash point required for your washer).

Technical specifications :

- Flash point : 73°C
- Distillation interval : 170 - 220°C
- VOC : 777,48 g/liter
- Odour : strong

Efficiency range : *UV inks, solvent inks except our PROPYLUX inks.*

Labeling :



CLEANING SOLVENT 2881

2881 is a versatile cleaning solvent.

Solvent 2881 is a good compromise between volatility and a flashpoint above 23°C.

This solvent is highly effective on most of our our ink ranges.

For manual use or in automatic screen cleaning unit (check the minimum flash point required for your washer).

Technical specifications :

- Flash point : 38°C
- Distillation interval : 120 - 170°C
- VOC : 903,20 g/liter
- Odour : medium

Efficiency range: *UVinks, Solvent inks, Plastisol inks*

Labeling :



CLEANING SOLVENT 2891

2891 is a versatile cleaning solvent.
Formulated without aromatic hydrocarbons.

Solvent 2891 is a fast-drying «dry» solvent.

This solvent is effective on UV inks, plastisol inks and some of our SOLVENT inks.

Suitable for automatic screen cleaning unit.

Technical specifications :

- Flash point : -6°C
- Distillation interval : 80 - 125°C
- VOC : 893,87 g/liter
- Odour : medium

Efficiency range: *UV inks, Solvent inks, Plastisol inks*

Labeling :



CLEANING SOLVENT 2899

2899 is a versatile cleaning solvent.

Solvent 2899 is a good compromise between volatility and a flashpoint above 23°C.

This solvent is highly effective on most of our our ink ranges.

For manual use or in automatic screen cleaning unit (check the minimum flash point required for your washer).

Technical specifications :

- Flash point : 32°C
- Distillation interval : 120 - 170°C
- VOC : 901,16 g/liter
- Odour : medium

Efficiency range: *UV inks, Solvent inks, Plastisol inks*

Labeling :



CLEANING SOLVENT 4881

4881 is a versatile cleaning solvent.

Solvent 4881 is a fast-drying «dry» solvent.

This solvent is effective on UV inks and most most SOLVENT inks.

Suitable for automatic screen cleaning unit.

Technical specifications :

- Flash point : -4°C
- Distillation interval : 80 - 125°C
- VOC : 868,54 g/liter
- Odour : low

Efficiency range : *UV inks , Solvent inks*

Labeling :



CLEANING SOLVENT 4891

4891 is a versatile cleaning solvent.

Formulated without aromatic hydrocarbons.

Solvent 4891 is a fast-drying «dry» solvent.

This solvent is effective on UV inks and most most SOLVENT inks.

Suitable for automatic screen cleaning unit.

Technical specifications :



- Flash point : -4°C
- Distillation interval : 80 - 125°C
- VOC : 878,75 g/liter
- Odour : medium

Efficiency range : *UV inks , Solvent inks*

Labeling :






CHARACTERISTICS OF CLEANING SOLVENTS

	NS-85	4895	NS-95
Solvents	Réf. 5 L : 3024070 Réf. 25 L : 3026070 Réf. 200 L : 3028070	Réf. 5 L : 3024000 Réf. 25 L : 3026000 Réf. 200 L : 3028000	Réf. 5 L : 3024080 Réf. 25 L : 3026080 Réf. 200 L : 3028080
Labeling	No Labeling		
Oily / Dry	Oily	Dry	Dry
Flash point (°C)	64°C	-6°C	35°C
Boiling interval (°C)	160 - 190°C	80 - 150°C	120 - 170°C
Speed evaporation	Slow	Fast	Medium
Content VOC (g/L)	866,68	800,72	857,55
Odour	low	Medium	Medium
Contains aromatic hydrocarbons	No	No	No
Efficiency on solvent inks	Good	Medium	Good
Efficiency on UV inks	Good	Good	Good
Efficiency on plastisol inks	Medium	Good	Medium
Use	Manual, automatic screen cleaning unit*	Manual	Manual, automatic screen cleaning unit*

* Check the minimum flash point required for your washer.

RANGE OF CLEANING SOLVENTS

CHARACTERISTICS OF CLEANING SOLVENTS

	2895	NS-55	PLASTISOL SOLVENT
Solvents	Réf. 5 L : 3054000 Réf. 25 L : 3056000 Réf. 200 L : 3058000	Réf. 5 L : 3024060 Réf. 25 L : 3026060 Réf. 200 L : 3028060	Réf. 5 L : 3094000 Réf. 25 L : 3096000 Réf. 200 L : 3098000
Labeling			
Oily / Dry	Dry	Dry	Oily
Flash point (°C)	-6°C	-4°C	78°C
Boiling interval (°C)	70 - 120°C	70 - 80°C	> 200°C
Speed evaporation	Fast	Very fast	Very slow
Content VOC (g/L)	805,69	903,00	689,54
Odour	Medium	Strong	Low
Contains aromatic hydrocarbons	No	No	No
Efficiency on solvent inks	Good	Good	Medium
Efficiency on UV inks	Good	Good	Medium
Efficiency on plastisol inks	Medium	Good	Good
Use	Manual	Manual	Manual, automatic screen cleaning unit*

* Check the minimum flash point required for your washer.

RANGE OF CLEANING SOLVENTS

CHARACTERISTICS OF CLEANING SOLVENTS

	NS-99	2881	2899	4881
Solvents	Réf. 25 L : 3026030	Réf. 5 L : 3064000 Réf. 25 L : 3066000 Réf. 200 L : 3068000	Réf. 5 L : 3044000 Réf. 25 L : 3046000 Réf. 200 L : 3048000	Réf. 5 L : 3004000 Réf. 25 L : 3006000 Réf. 200 L : 3008000
Labeling				
Oily / Dry	Oily	Dry	Dry	Dry
Flash point (°C)	73°C	38°C	32°C	-4°C
Boiling interval (°C)	170 - 220°C	120 - 170°C	120 - 170°C	80 - 125°C
Speed evaporation	Slow	Medium	Medium	Fast
Content VOC (g/L)	777,48	903,20	901,16	868,54
Odour	Strong	Medium	Medium	Low
Contains aromatic hydrocarbons	No	Yes	Yes	Yes
Efficiency on solvent inks	Good	Good	Good	Good
Efficiency on UV inks	Medium	Good	Good	Good
Efficiency on plastisol inks	Medium	Good	Good	Faint
Use	Manual, automatic screen cleaning unit*	Manual, automatic screen cleaning unit*	Manual, automatic screen cleaning unit*	Manual

* Check the minimum flash point required for your washer.

SOLVENT GLOSSARY

■ FLASH POINT

The flash point of a product is the minimum temperature, under normal atmospheric pressure, at which it emits sufficient vapors to ignite in the presence of a heat source (flame, spark, etc.).

Product labeling  is directly linked to this value :

- Flash point < 23°C and boiling point > 35°C : Flammable liquid Cat.2 H225
- 23°C < Flash point < 60°C : Flammable liquid Cat.3 H226
- 60°C < Flash point < 93°C : Combustible liquid, no labeling

■ VOLATILE ORGANIC COMPOUNDS (V.O.C)

Volatile Organic Compound» means any organic compound with a vapour pressure $p : p \geq 0.01$ kPa or 0.075 mm Hg.

■ AROMATIC HYDROCARBONS

Aromatic hydrocarbons are mixtures of solvents derived from the fractionation of petroleum products during distillation.

Known generally as naphtha solvents, this name is often accompanied by distillation values: 90 - 160, for example.

We restrict the use of the most volatile solvents, such as toluene, xylene and benzene. Their use in cleaning solvents is mainly due to their low cost, low odour and ability to increase the solvent power of the mixture.

Used in concentrations of over 10%, they render the mixture H304 - Danger by aspiration and above 25%, they render the mixture H411 - Chronically toxic to the aquatic environment.