

# TEGOPREN® 6924

## Product description

TEGOPREN® 6924 is a quaternary silicone for hydrophilic textile finishing.

## Physical properties

Appearance	yellow liquid
Viscosity (Brookfield)	7 000 – 13 000 mPas
Active content (%)	min. 95%
Propylene glycol content	max. 5 %
Weight % quat. Nitrogen	0.3 – 0.4

## Application fields

TEGOPREN® 6924 is recommended as substantive, very high performance softening agent with good rewetting properties for textile applications.

TEGOPREN® 6924 provides excellent softness for non-wovens and fabrics made of native or synthetic fibers. It is also recommended as a component for diverse preparations.

TEGOPREN® 6924 is used in macro and micro-emulsions dependent on the co-emulsifier used.

TEGOPREN® 6924 can be formulated with organic quaternaries, alkoxyates, polyether siloxanes and/or alkyl-polyether siloxanes.

## Benefits

TEGOPREN® 6924 gives outstanding softening performance, good hydrophilicity and good non-yellowing behavior.

TEGOPREN® 6924 is compatible and easy to formulate at room temperature conditions.

TEGOPREN® 6924 macro emulsions show good stability and maximal softness.

TEGOPREN® 6924 micro emulsions show good stability at high shear rates.

## Dosage/Handling

TEGOPREN® 6924 can be applied by the exhaust method or by padding.

We suggest the dilution of TEGOPREN® 6924 with solvent e. g. butyldiglycol to reduce viscosity and improve handling.

For padding applications we recommend a dosage of approx. 2–8% TEGOPREN 6924

For the exhaust method we recommend approx. 0.1 – 0.8 % TEGOPREN® 6924 (based on textile weight) at a temperature of 40°C and duration approx. 20 min.

## Registration status

The components of TEGOPREN® 6924 are listed in the following chemical inventories:

EINECS, TSCA, ENCS, PICCS, ECL and China

## Storage stability

12 months in original sealed containers at room temperature.

## Packaging

200 kg steel drums  
Pallet size: 4x 200 kg = 800 kg  
1 000 kg plastic containers

## Hazardous goods classification

Information concerning

- classification and labelling according to regulations for transport and for dangerous substances
- protective measures for storage and handling
- measures in case of accidents and fire
- toxicity and ecological effects

is given in our material safety data sheets.

## Guide Formulations

### 12.5 % Macro Emulsion

Product	%
TEGOPREN® 6924	10.0
REWOQUAT® W 325 PG	2.5
Isotridecanol · 6 EO	2.0
Butyl di glycol	5.0
Water	80.5

#### Processing

Add water, FAEO and solvent into vessel and start to stir.

Add REWOQUAT® W 325 PG slowly while stirring.

Add TEGOPREN® 6924 into the above mixture vessel and keep stirring about 50 minutes to homogenise the emulsion.

Adjust pH value to 5.5 – 6.5.

## Guide Formulations

### 20 % Micro Emulsion

Product	%
TEGOPREN® 6924	21.0
Lauryl fatty alcohol · 6 EO	10.0
Dipropylen glycol	10.0
Water	59.0

#### Processing

Add water to the vessel and start to stir ensuring good circulation of the water.

Keep stirring and add FAEO, DPG and TEGOPREN® 6924 in turn. After adding, keep stirring for 20 – 30 minutes. Add HAC (99 %) to adjust pH value to 5.5 – 6.5

The finished appearance is a clear micro emulsion with a slight bluish appearance.

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