



## TECHNICAL DATA SHEET

### UNIDYNE TG-5506

Water and Oil Repellent  
for Nonwovens

#### Characteristics

Imparts excellent hydrostatic head pressure and compatible with most anti-stats.

Recommended for nearly all types of synthetic fabrics to impart excellent water and oil repellency.

Compatible with most textile additives.

Imparts excellent process stability and compatible with most textile additives.

Properties*	Value
Appearance	Off white or pale red
Ionic character	Nonionic
pH	2.1 – 6.5 @ 25°C
Specific gravity	1.07 - 1.17 @ 25°C
Solids content	29.0 - 31.0%
Solubility	Readily miscible in cold water
Shipping & Storage	Keep from freezing

\*Typical properties are not suitable for specification purposes.

TG-5506 should be stored at temperatures between -5°C and 40°C (23°F and 104°F).

#### Application Guide

Fabric Type	WPU %	Conc. (g/L)	Dry/Cure Conditions
Polypropylene nonwoven	100-120	3-10	Dry: 100 - 120°C for 0.5 - 3 min
Polyester, Nylon	100-140	10-40	Dry: 150 - 170°C for 0.5 - 2 min

\*Requires use of fugitive wetting agents such as octanol or hexanol.

Note: To obtain maximum oil and water repellency, maintain a bath pH of 3 - 7. If pH is above 8.0, adjust pH with acetic acid.

Dry/Cure conditions are based on a lab setting.

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## Safety Precautions

Reference the Safety Data Sheet for details regarding the safe use and disposal of this product.

## Technical Support

Our technical service team is available to assist with manufacturing problems, formulation development, product application, and quality control. Daikin America has technical service centers in the US, China, Japan, Taiwan, Korea, and Europe. Daikin personnel are essentially available around the clock.

## Quality

*Unidyne™* is an example of Daikin America's commitment to Total Quality Management. Our advanced technologies and computer controlled systems produce products with absolute consistency, ensuring reproducible quality.

## Perfect Chemistry

Our manufacturing, R&D, sales and marketing teams are linked by a common pursuit: to better serve our customers. We strive to be proactive and immediate in our response to customer needs.