

UNIDYNE™ TG-5502

Water and Oil Repellent
for Nonwovens

Characteristics

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

Works well with anti-static agents.

Compatible with most textile additives.

Properties*	Value
Appearance	Off white emulsion
Ionic character	Weakly cationic
pH	2.0 - 5.0 @ 25°C
Specific gravity	1.07 - 1.17 @ 25°C
Solids content	29 - 31.0%
Solubility	Readily disperses in cold water
Shipping and Storage	Keep from freezing
Flash point	Exceeds initial boiling point

*Typical properties are not suitable for specification purposes.

Application Guide

Standard Recipe

Substrate	Concentration (% owb)	Application Method*	Dry/Cure Conditions
Polypropylene Nonwoven	0.5 – 3%	Dip/Nip wet pick up 150 - 250%	Dry: 212 - 248°F for 0.5 - 3.0 min

*Requires use of fugitive wetting agents such as Octanol or Hexanol

Typical Performance and Conditions

Substrate	Concentration (% owb)**	Wet Pick Up (%)	Dry/Cure Conditions	IPA	HH (mbar)
Polypropylene Nonwoven	1%	210	248°F for 2 min	100 %	> 50

** Add also 0.3 – 1% wetting agent

Note:

IPA - IPA in Water by 3M method.

HH - Hydrostatic Pressure by AATCC TM-127

When a fugitive wetting agent is used, it is essential that the alcohol be thoroughly dissolved before any other bath components are added.

Shipping & Storage

TG-5502 should be stored at temperatures between 23°F and 86°F (-5°C and 30°C)

Safety/Toxicology

Before using this product, please read the current TG-5502 Safety Data Sheet and the precautionary statement on the product package. Follow all applicable directions.