

Unidyne TG-8111

Oil and Grease Repellent for
Fiber-based Food Contact
Applications

Characteristics

Resistant to hot oil and
grease for superior
performance

Topical or wet-end addition
possible to fit your process

Suitable for use in frozen
food packaging, take-out
containers, and disposable
dinnerware

FDA food contact approval
21 CFR 176.170 & 21 CFR
176.180; conditions A-H, J

BfR food contact
recommendation XXXVI
and XXXVI/2

Properties*	Value
Appearance	Off white to pale yellow liquid
Ionic character	Anionic
pH	6.5 - 8.0 @ 25°C
Specific gravity	1.00 - 1.15 @ 25°C
Solids content	19.0 - 21.0%
Solubility	Readily dissolves in cold water
Shipping & Storage	Keep from freezing

*Typical properties are not suitable for specification purposes

TG-8111 should be stored at temperatures between -5°C and 40°C

General Formulation	Function	Typical Dosage*
AKD	Water sizing	18 #/ton
Cationic retention aid	Chemistry retention to fiber/drainage aid	4 #/ton
TG-8111	Oil/grease repellent	20 #/ton

Recipe optimization is dependent on fiber feedstock, auxiliary chemicals, and process characteristics. Daikin provides on-site technical service to understand your process and to provide the best cost-in-use for your application.

- When used in molded fiber applications, TG-8111 provides excellent hot oil (>80°C) resistance
- TG-8111 is compatible with hardwood, softwood, bagasse, bamboo, wheat straw, and various other fiber types
- Compatible with a wide range of water sizing agents and auxiliary chemistries
- Suitable for use over a range of slurry conditions
- Can be pre-diluted or used as-received
- Applications include fiber-based dinnerware, take-out containers, and frozen food packaging
- Use of TG-8111 does not impact the ability to compost or recycle fibers