



## TECHNICAL DATA SHEET

### UNIDYNE™ TG-8112

Grease and Water  
Repellent for Food  
Contact Paper

#### Characteristics

Imparts repellency to oil and  
grease.

Imparts excellent sizing to  
sheet (HST, Cobb).

Can be used in conjunction  
with starch.

Can be used on food  
contact paper.

Low VOC.

No HAPs associated with  
use.

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-8112 should be stored at temperatures between 0°C and 40°C  
(32°F and 104°F).

#### Application Guide

QSR Paper applications (contact drying at 105°C for 30 sec.)

Product	Dry FC	Dry Starch	Kit value	Hot Corn Oil Repellency	HST (1%) Seconds	Cobb (gsm) 2 min.
None	None	28#/ton	0.0	None	0	86
TG-8112	2.0#/ton	28#/ton	8.0	Excellent	4	67
TG-8112	4.0#/ton	28#/ton	9.0	Excellent	43	31
TG-8112	6.0#/ton	28#/ton	10.5	Excellent	57	25
Competitor A	2.0#/ton	28#/ton	7.0	Good	68	82
Competitor A	4.0#/ton	28#/ton	8.5	Excellent	262	62
Competitor A	6.0#/ton	28#/ton	8.5	Excellent	288	62
Competitor B	2.0#/ton	28#/ton	7.0	Good	0	84
Competitor B	4.0#/ton	28#/ton	7.5	Excellent	0	76
Competitor B	6.0#/ton	28#/ton	7.5	Excellent	0	73

[T-559][5min. @ 140F][T-530] [T-441]

**Petfood applications (contact drying at 105°C for 30 sec.)**

Product	Dry FC	Dry Starch	Kit value	RP-2	Aggressive Pet Food
None	None	28#/ton	0.0	100%	100%
TG-8112	4.0#/ton	28#/ton	9.0	0%	14%
TG-8112	6.0#/ton	28#/ton	10.5	0%	0%
TG-8112	8.0#/ton	28#/ton	10.5	0%	0%
Competitor A	4.0#/ton	28#/ton	8.5	13%	98%
Competitor A	6.0#/ton	28#/ton	8.5	0%	92%
Competitor A	8.0#/ton	28#/ton	9.5	0%	89%
Competitor B	4.0#/ton	28#/ton	7.5	67%	100%
Competitor B	6.0#/ton	28#/ton	7.5	63%	100%
Competitor B	8.0#/ton	28#/ton	8.0	90%	99%

[T-559][24hr @ 140F][24hr @ 140F]

**Popcorn applications (contact drying at 105°C for 30 sec.)**

Product	Dry FC	Dry Starch	Kit value	Turpentine
None	None	20#/ton	0.0	0
TG-8112	3#/ton	20#/ton	8.0	870
TG-8112	5#/ton	20#/ton	10.0	>1,800
Competitor A	3#/ton	20#/ton	8.0	600
Competitor A	5#/ton	20#/ton	10.0	960
Competitor B	3#/ton	20#/ton	8.0	600
Competitor B	5#/ton	20#/ton	10.0	900

[T-559] [T-454]

**QSR Board applications (contact drying at 105°C for 30 sec.)**

Product	Dry FC	Dry Starch	Kit value	Hot Corn Oil Repellency	Cobb (gsm) 2 min.
None	None	28#/ton	0.0	None	50
TG-8112	0.5#/ton	28#/ton	3.0	Good	37
TG-8112	1.0#/ton	28#/ton	5.0	Excellent	35
TG-8112	6.0#/ton	28#/ton	7.0	Excellent	32
Competitor A	0.5#/ton	28#/ton	1.0	Poor	53
Competitor A	1.0#/ton	28#/ton	5.0	Excellent	19
Competitor A	1.5#/ton	28#/ton	6.0	Excellent	42
Competitor B	0.5#/ton	28#/ton	1.0	Poor	55
Competitor B	1.0#/ton	28#/ton	5.0	Excellent	53
Competitor B	1.5#/ton	28#/ton	6.0	Excellent	50

[T-559][5min @ 140F][T-441]

**Safety Precautions**

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